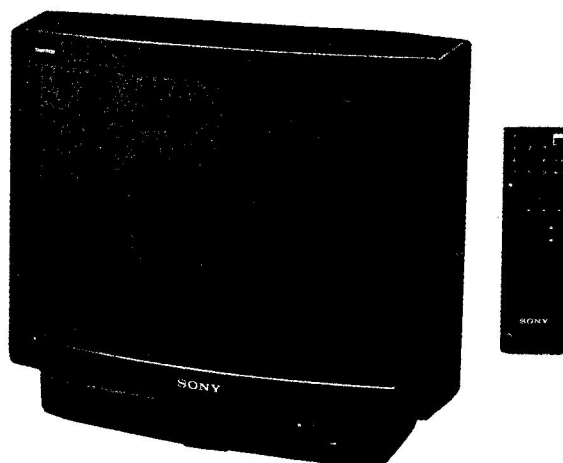


KV-M2140K/M2141K

RM-694

SERVICE MANUAL



OIRT Model

KV-M2140K

Chassis No. SCC-E50B-A

KV-M2141K

Chassis No. SCC-E50A-A

BE-2A CHASSIS

MODELS OF THE SAME SERIES

KV-M2140K/M2141K	

SPECIFICATIONS

【KV-M2140K/M2141K】

Television system B/G/H/D/K
 Color system PAL/SECAM
 Channel coverage B/G/H
 VHF : E2-E12
 UHF : E21-E69
 CABLE TV : S1-S20
 D/K
 VHF : R1-R12
 UHF : R21-R60

Picture tube Black Trinitron tube
 90° degree deflection
 Approx. 54.5 cm (21 inches)
 (Approx. 51.0cm picture measured diagonally)

Inputs 21-pin connector : CENELEC standard
 Including RGB input
 Audio/Video input jacks : phono jacks
 S-Video input

Outputs 21-pin connector : CENELEC standard
 Headphones jack : minijack

Sound output 5 W (Music)

Power consumption 70.5Wh (KV-M2140K)
 73.5Wh (KV-M2141K)
 Dimensions Approx. 513x475x487 mm (w/h/d)
 Weight Approx. 24.9 kg

【RM-694】

Remote control system infrared control
 Power requirements 3V dc
 2 batteries IEC designation
 R6 (size AA)
 Dimensions Approx. 55×18×185mm (w/h/d)
 Weight Approx. 100g including batteries
 Accessories supplied IEC designation R6 batters (2)

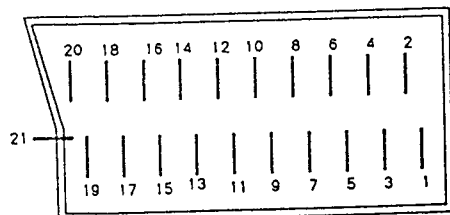
Supplied accessories RM-694 Remote Commander (1)
 IEC designation R6 batteries (2)

Design and specifications are subject to change without notice.

TRINITRON® COLOR TV
SONY®



21-pin Euro Connector Configuration



PIN	SIGNAL	SPECIFICATION
1	Audio output	0.5Vrms/1k Ω m or less
2	Audio input	0.5Vrms/10k Ω hms or more
3	Audio output	0.5Vrms/1k Ω m or less
4	Earth (audio)	
5	Earth (B-input)	
6	Audio input	0.5Vrms/10k Ω hms or more
7	B-input	0.7Vp-p/75 Ω hms
8	Function switching ^a	9.5V to 12V
9	Earth (G-input)	
10		
11	G-input	0.7Vp-p/75 Ω hms
12		
13	Earth (R-input)	
14	Earth (blanking)	
15	R-input	0.7Vp-p/75 Ω hms
16	Fast blanking	1V to 3V/75 Ω hms
17	Earth (video)	
18	Earth (fast blanking)	
19	Video output	1Vp-p/75 Ω hms
20	Video input	1Vp-p/75 Ω hms
21	Screening plug	

4 pin connector (G)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V \pm 3dB 75 Ω m, positive Sync 0.3V \pm 1/2 dB
4	C (S signal) input	0.3V \pm 3dB 75 Ω m positive

SAFETY-RELATED COMPONENT WARNING !!


COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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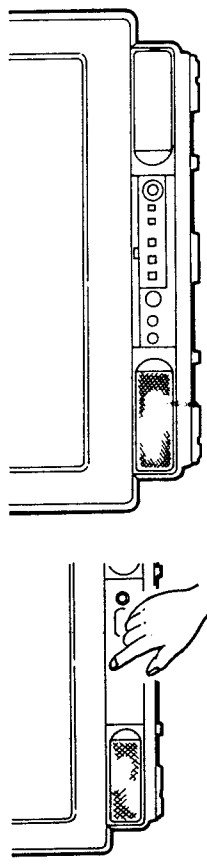
SECTION 1 GENERAL

Note) The layout, etc., will be slightly different from the operating instructions packed with the units.

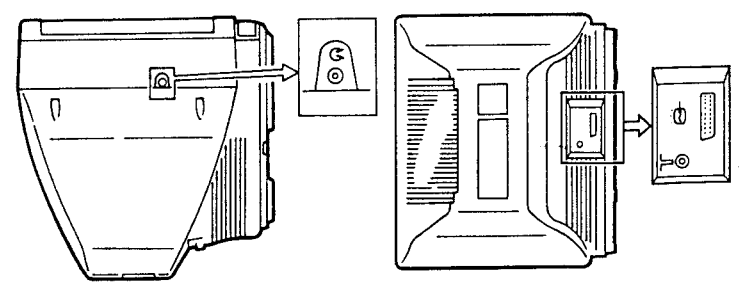
1-1. INDEX OF THE PARTS

In the following you will find a short description of the parts and their function on the set or on the remote commander using the respective symbols. For more details refer to the page number given in the index.

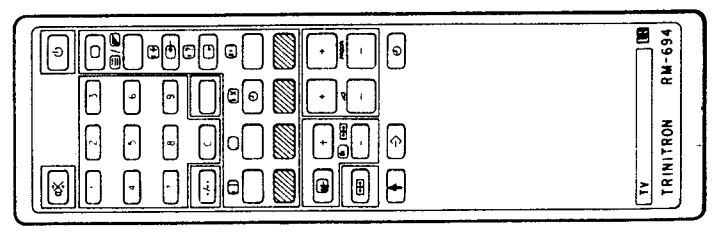
TV Set — Front



TV Set — Rear



Remote Commander



Symbol	Function
	Headphones jack (mini-jack)
	Video input jack
	Audio input jack
	Buttons for Sound and picture adjustment
	Programme scanning buttons
	S-video input jack
	Standby indicator
	Power switch
	Aerial socket (rear of the set)
	21-Pin connector (rear of the set)

Symbol	Function
	Mute button
1-9, 0, - / - -	Number buttons — in case of two digit numbers first press button - / - - and then two number buttons
	Button has no function
	Select button for picture adjustment item
+ / -	Buttons for adjustment picture items
	Buttons for manual fine tuning of a channel
	Button for resetting the picture adjustment items to standard
C	Button for clearing a programme position (in preset mode)
	Functions only in combination with other buttons
	Preset mode on/off buttons
	Buttons for switching the TV set into standby mode
	Used to return to TV-mode from standby and video input modes
	Button for selecting the video input mode
	On/off button for onscreen display
PROGR + / -	Programme scanning buttons
	Buttons for adjusting the volume
	Button for activating the sleep timer

Note Buttons not referred to in this index have no function.

1-2. TO PRESET CHANNELS

The control buttons to preset channels are located on the Remote Commander. (Up to 60 programme positions are at your disposal.)

- 1 Press the power switch on the set to switch it on.
- 2 Press both the \uparrow (shift) button and the \rightarrow (preset) button simultaneously. You are now in the preset mode.
- 3 Use either button PROGR + (upwards) or PROGR - (downwards) to select the required programme position.
- 4 Press both the \uparrow button and the \rightarrow + or - button repeatedly until the desired TV station is found.
- 5 Repeat steps 3 and 4 for all other channels.
- 6 Press once more both the \uparrow button and the \rightarrow (preset) button in order to return to the TV mode and to store the channels.

Skipping of programme positions

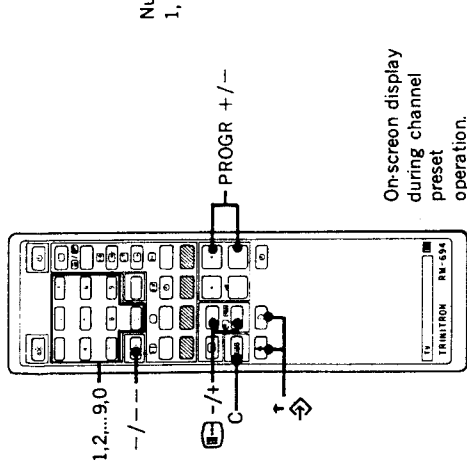
Using both the button C and the \uparrow button you have the possibility to skip unused programme positions (e.g. without a stored station) when pressing the PROGR + / - buttons.

- 1 Press both the \uparrow button and the \rightarrow (preset) button to select the preset mode.
- 2 Select the programme position to be skipped by pressing the + or - PROGR button.
- 3 Press the C button.
- 4 Press both the \rightarrow (preset) button and the \uparrow button to return to the TV mode.

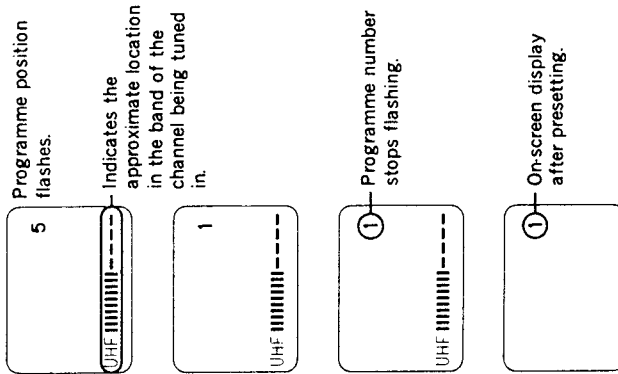
Manual Fine Tuning

If the reception of a channel is not satisfactory you have the possibility to deactivate the Automatic Fine Tuning which usually tunes in the best possible picture during presetting.

Press both the \uparrow button and the \rightarrow + or - button to fine tune the channel. By pressing the respective programme number the automatic Fine Tuning will be restored.



On-screen display during channel preset operation.



1-3. DAILY USE OF THE TV

Your TV set is supposed to be operated with the Remote Commander, for the basic functions however it is also possible to use the buttons on the set itself.

- **Switching the set on**
Press the power switch on the set to switch the TV on. If the set is switched on, the green indicator on the set lights up. If it is in standby mode the red indicator lights up (see also 'Standby mode').
- **Switching the set off**
Press the power switch on the set to switch the TV off.
- **Selection of programmes**
Press the respective number button 1, 2, ..., 9 on the remote commander.
In the case of two digit numbers, first press button - / - and then the two respective number buttons.
With the PROGR + / - buttons you can scan the programme positions (+ upwards, - downwards).

On the Set

Press the - button for lower programme positions and the + button for higher ones.

- **Standby mode**

There are two possibilities to put the set into standby mode.

1. Directly

Press the button \rightarrow on the remote commander. The red indicator \rightarrow on the set lights up.

Note:

Use the standby button only for short breaks. If the set will not be used for a longer time span, use the power switch \rightarrow to switch the set off.

2. By using the sleep timer

Press the \rightarrow button repeatedly until the required time period is displayed on the screen (30, 60, 90 or 0 for cancelling of the operation).

In this way you can select the time period after which the set switches itself automatically into standby mode.

Switching the set on out of standby mode

Press the \rightarrow button or one of the number buttons on the remote commander.

- **On-screen display**

Press the \rightarrow button to display the programme number on the screen and press the button once more to make (only for KV-M2141K) it disappear.

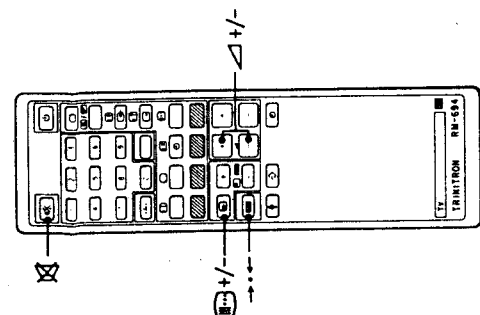
- **Time feature (KV-M2141K only)**

In TV-mode, if teletext is broadcast on the selected channel, press the button \rightarrow to display the current time.

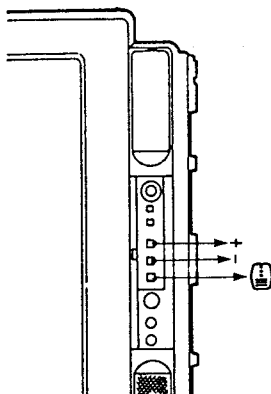
- **Selecting the signal of the connected device**

Press the \rightarrow button to receive the signal of the device (e.g. a video recorder) connected at the VCA connectors or the 21-pin connector (rear of the set). Press the \rightarrow button to return to the TV mode.

1.4. PICTURE AND SOUND ADJUSTMENTS



- Volume**
 Press the button Δ + to increase the volume and the button Δ - to decrease it.
- On the set**
 Press the Δ button until Δ is displayed on the screen and adjust the volume with the + or - button.
- Modification of the picture presettings**
 Press the Δ button on the commander to select either contrast Δ , colour intensity Δ or brightness Δ (the respective indication is displayed on the screen). Adjust the settings by pressing the + or - button.
- To return to factory-set levels**
 Press the reset button $\rightarrow \cdot \leftarrow$ to return to the preset picture levels.
- On the set**
 Press the button Δ in order to select the requested item (contrast Δ , colour intensity Δ , brightness Δ), and adjust with the + or - button.
- Muting the sound**
 Press the Δ button to switch off the sound. Press the button again to restore the sound.



1.5. VIEWING TELETEXT (KV-M2141K only)

To view the teletext service, use the Remote Commander. RM-694 has teletext buttons indicated in green; teletext operation is indicated in green.

Operation

- Select the TV channel for the desired teletext service.
- Press Δ / Δ (TEXT / MIX) to display the teletext service.
- Once Δ / Δ has been pressed, the TV channel cannot be changed.
- Key in the three digits for the desired page using the number buttons. If an error is made, complete the three digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the Remote Commander.

The teletext service can be displayed directly from the standby mode, by pressing Δ / Δ .

To receive the teletext service of a different TV channel.

- Press TV to return to the TV mode.
- Select the desired TV channel.
- Press Δ / Δ .

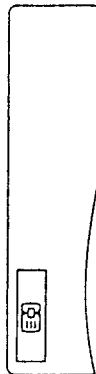
To display the index page.
 Press Δ (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page.
 Press Δ (PAGE+) or Δ (PAGE-). These buttons are indicated in white on the Commander.

To superimpose the teletext display on the TV picture.
 Press Δ / Δ twice from TV mode.
 Press Δ / Δ again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed.
 Press Δ (TEXT CL). This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated / changed.
 Press Δ HOLD. The HOLD symbol " Δ " appears at the top left of the screen.



To resume normal teletext reception, press Δ / Δ .

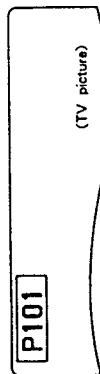
To enlarge the teletext display.
 Press Δ . Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display; press again to return to the normal display.

To reveal concealed information such as the answers to a quiz.
 Press Δ (REVEAL).
 Press again to conceal the answers.

To adjust the contrast of the teletext display.
 Press Δ + or - button.

To watch the TV program while waiting for a requested page to be displayed.

- Request the new page.
- Press Δ to watch the TV program. The requested page number appears at the top left of the screen. When the requested page has been found, the page number is displayed on the top left hand corner of the screen.



To view this page, press Δ / Δ .

To have a requested page displayed at a pre-determined time.

- Request a time coded page (e.g. alarm page).
 Press Δ (TP ON).
- "T****" will appear at the bottom of the screen.



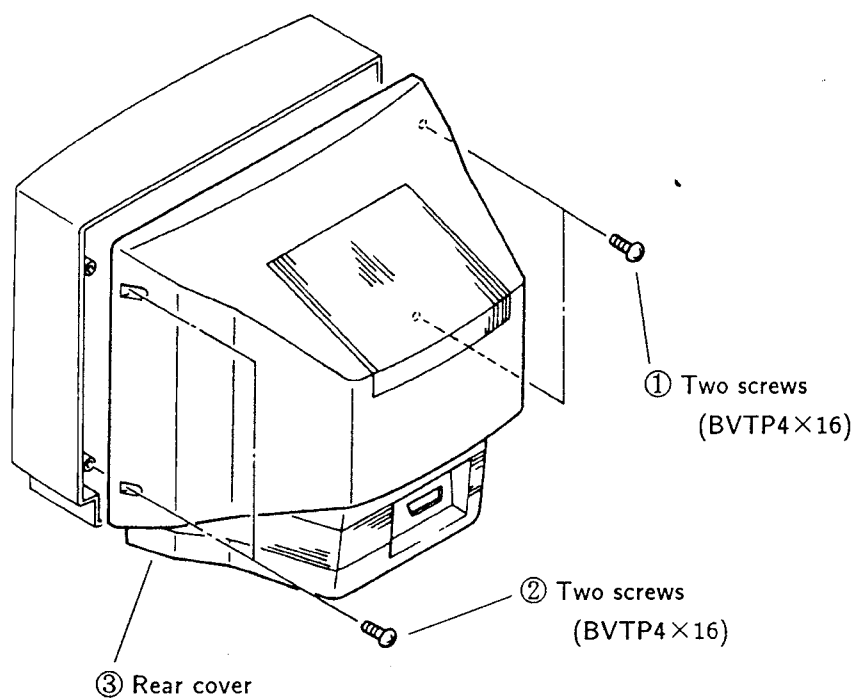
- Enter your request time with the number buttons, using four digits. For example, 07:30.



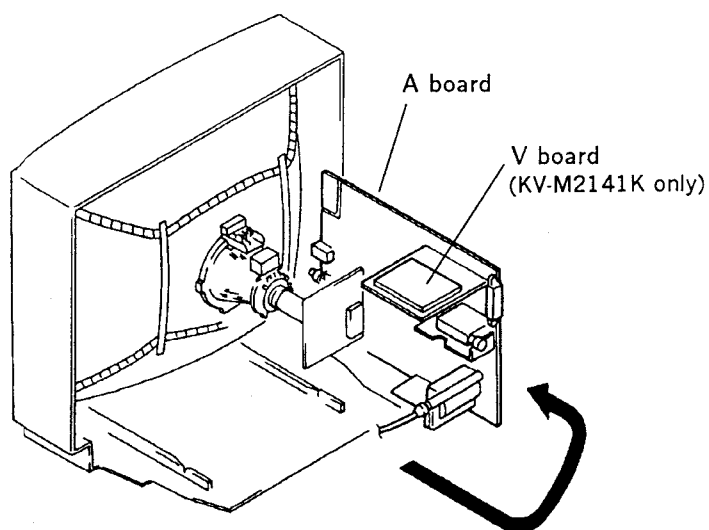
To watch the TV program until the requested time, press Δ . At the requested time, the page number will be displayed at the top of the screen.
 To view this page, press Δ / Δ .
 To cancel the request, first ensure that the teletext page is displayed, then press Δ (TP OFF).

SECTION 2 DISASSEMBLY

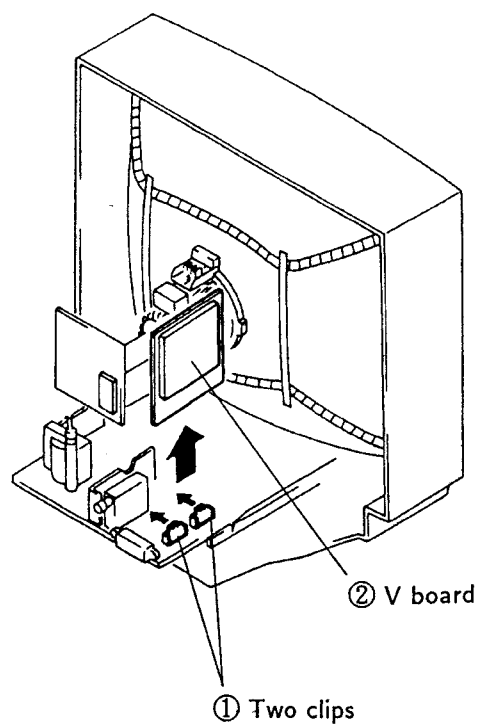
2-1. REAR COVER REMOVAL



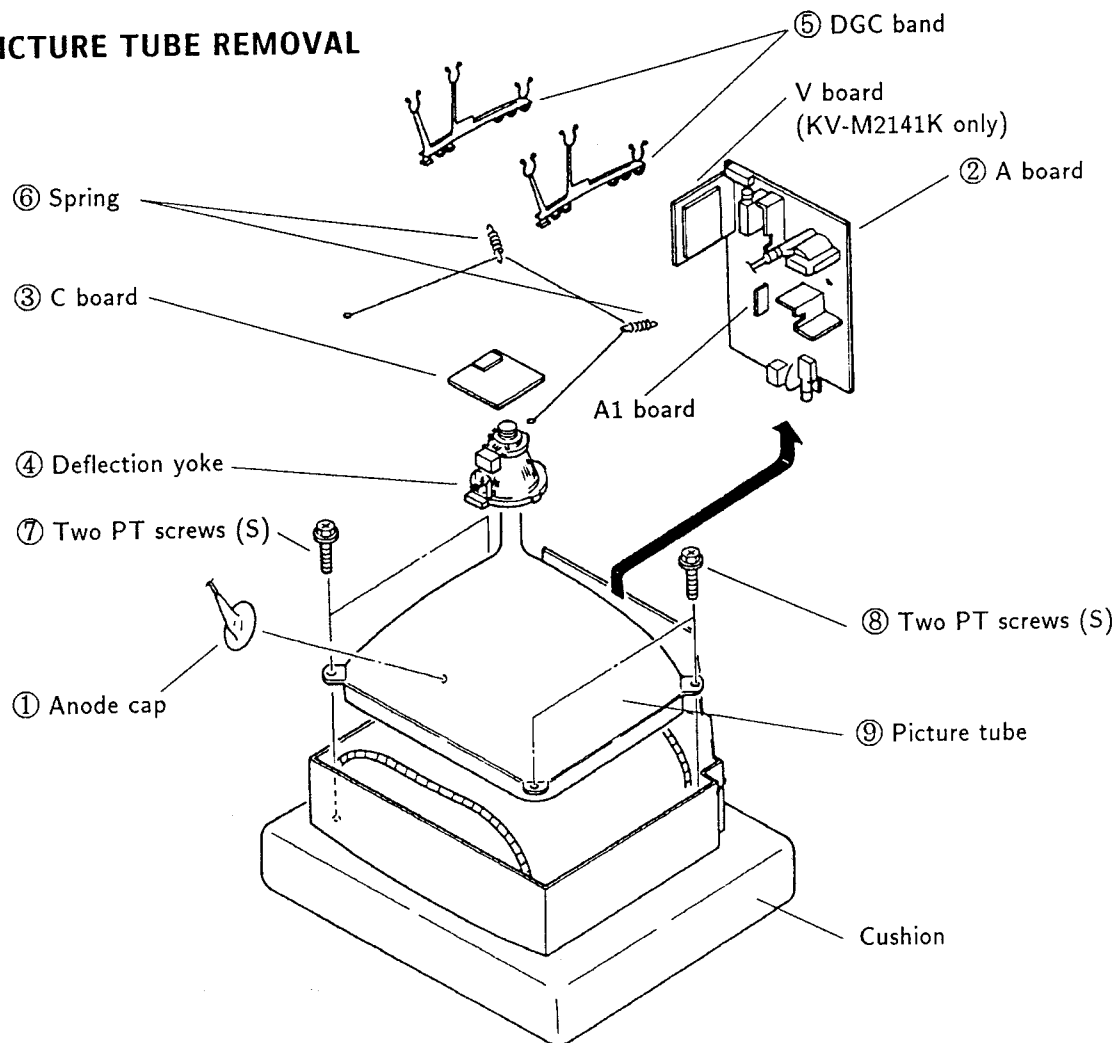
2-2. SERVICE POSITION



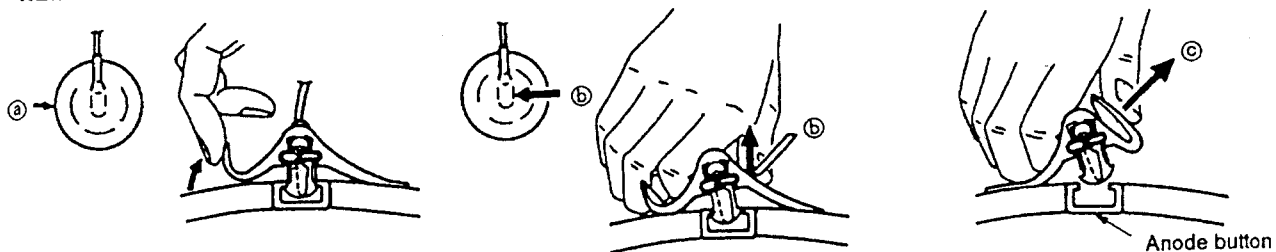
2-3. V BOARD REMOVAL (KV-M2141K only)



2-4. PICTURE TUBE REMOVAL

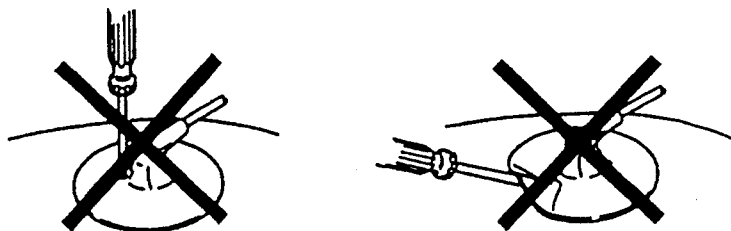


• REMOVING PROCEDURES



• HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted. The controls and switch below should be set as follows unless otherwise noted :

● CONTRAST control..... 80%(or Normal by commander)
 ⚙ BRIGHTNESS control..... 50%

Perform the adjustments in order as follows:

Preparation:

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.

CONTRAST
 BRIGHTNESS

}

normal
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly.
 (Fig.3-1 - 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
5. Switch over the raster signal to blue and green confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)

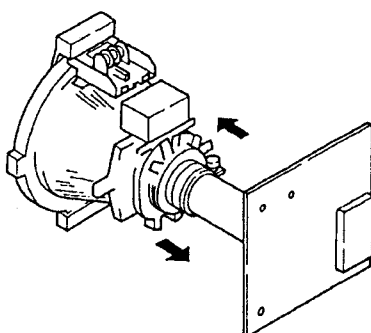


Fig.3-1

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G 2) and White Balance

Note: Test Equipment Required.

1. Color bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

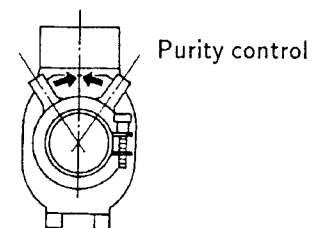


Fig.3-2

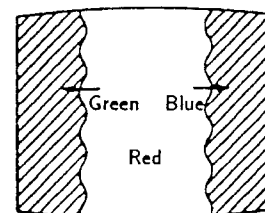
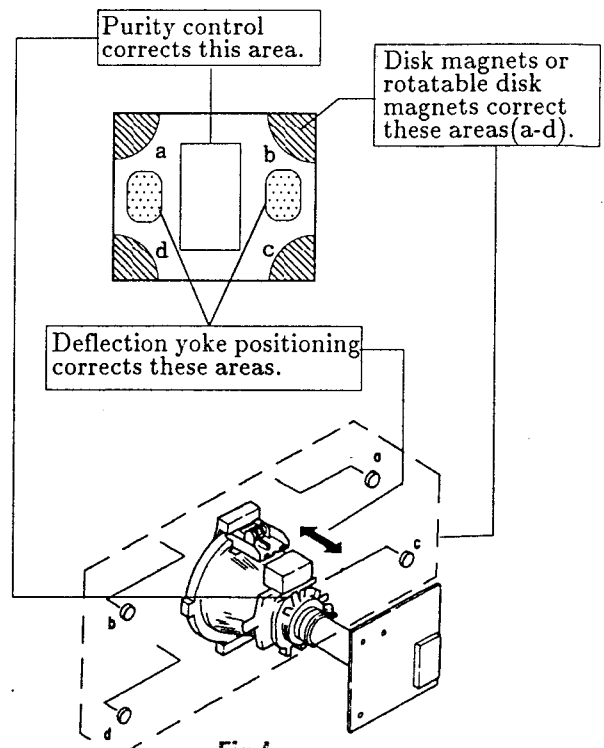


Fig.3-3

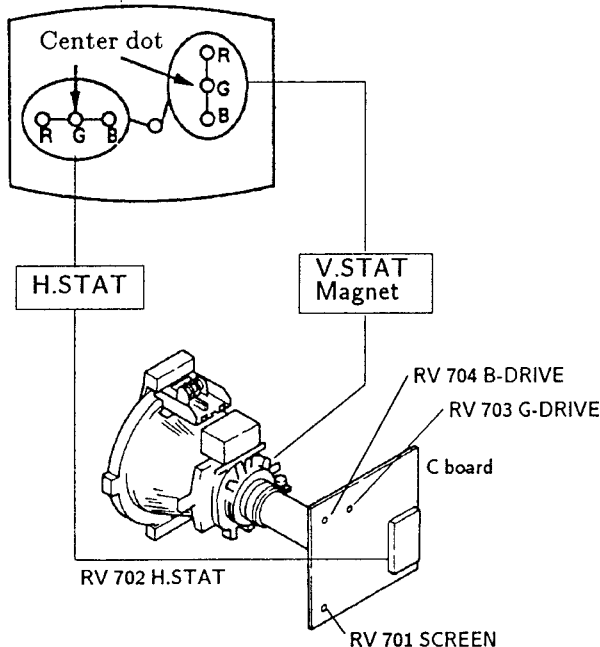


3-2. CONVERGENCE

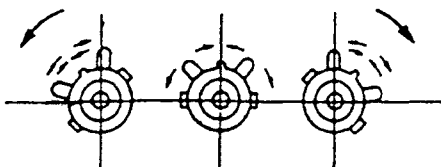
Preparation:

- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

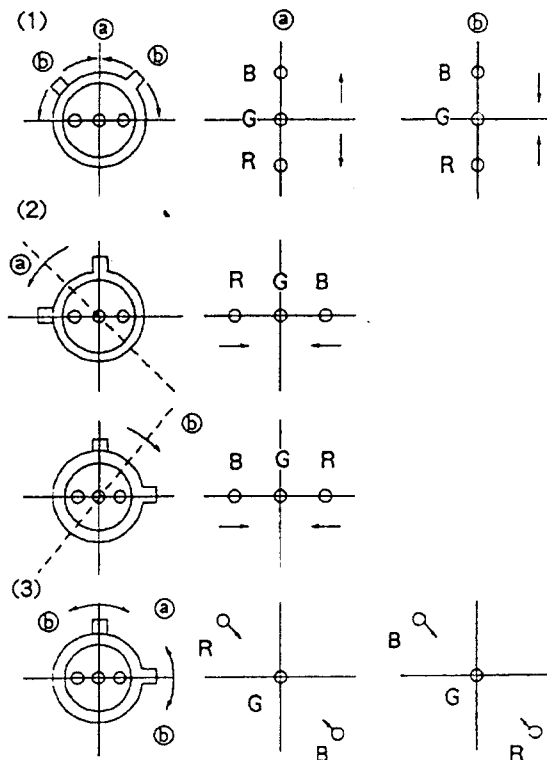
(1) Horizontal and Vertical Static Convergence



1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
 2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
 3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

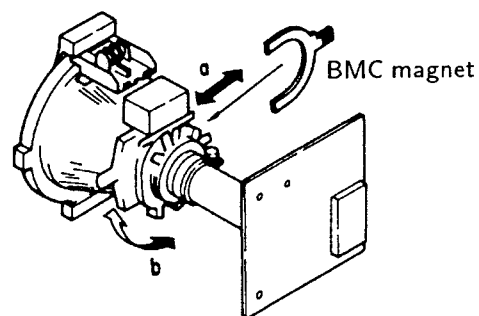


If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.



(2) Dynamic Convergence Adjustment

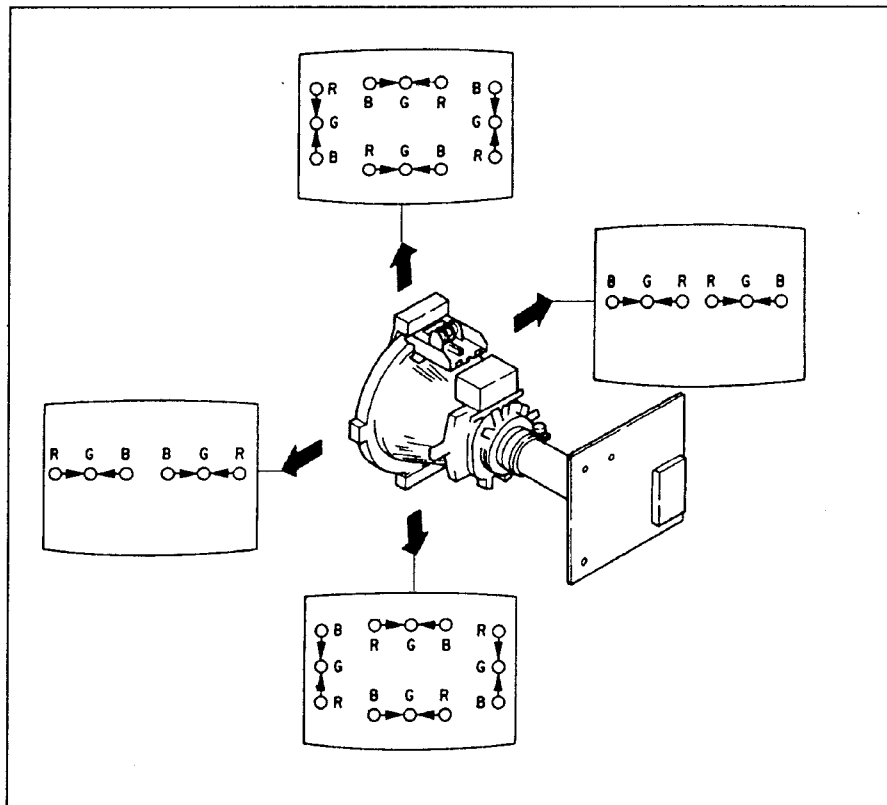
Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.

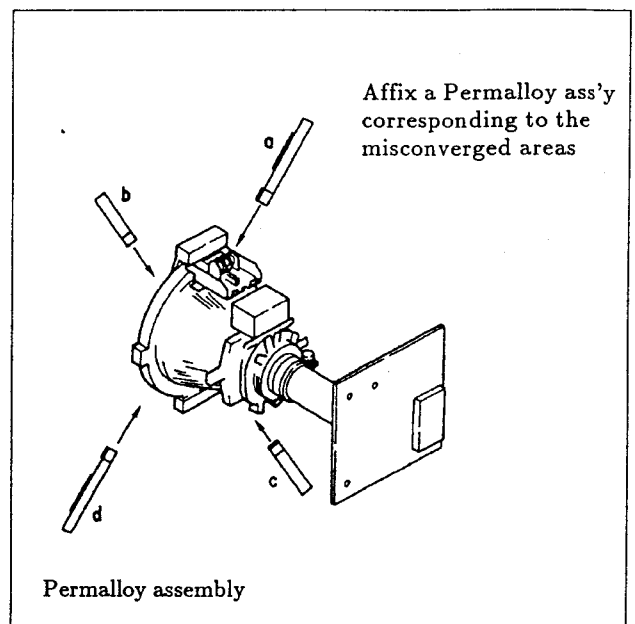
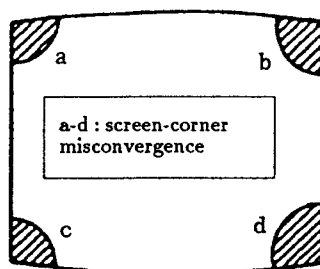
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.

3. Move the deflection yoke for best convergence as shown below.

4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

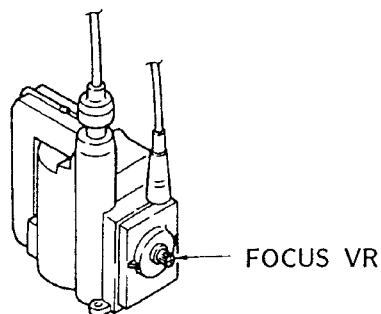


(3) Screen-corner Convergence



3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

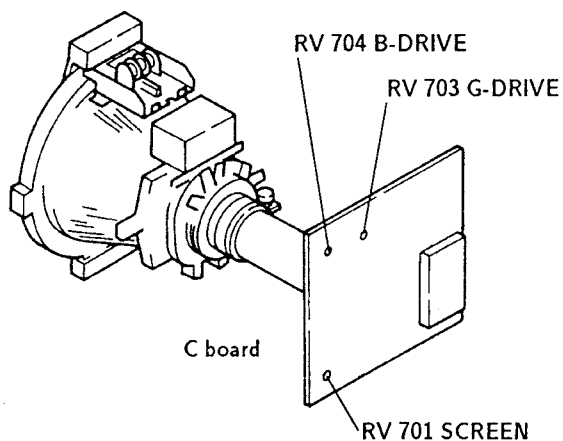


White Balance Adjustment

1. Input all-white signal from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the following using RV 704 (B DRIVE) and RV 703 (G DRIVE)

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

3-4. SCREEN (G 2) and WHITE BALANCE



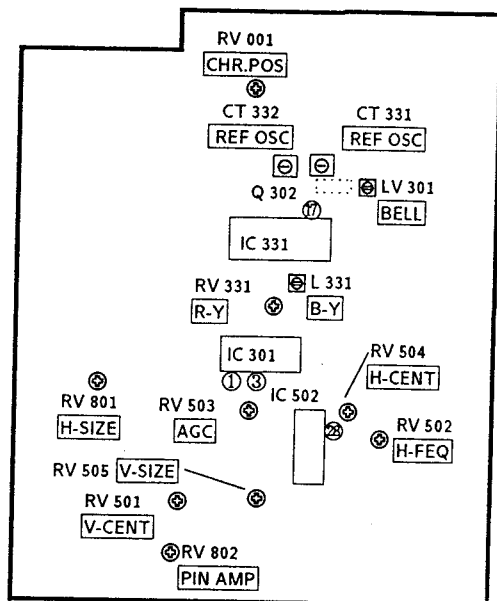
Screen (G 2) Setting

1. Input dot signal from the pattern generator.
2. Set the picture BRIGHTNESS control to minimum level.
3. Apply 170 V DC to the cathodes of R,G and B from an external power source.
4. While watching the picture, adjust the G2 control RV701 (SCREEN) immediately before fly-back line disappears.

SECTION 4

CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



A BOARD
-Component side-

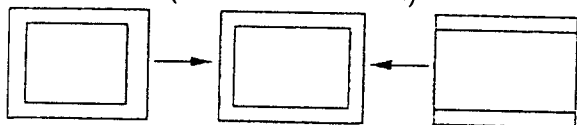
TU AGC Adjustment (RV 503)

1. Tune in air signal.
2. Adjust AGC VR (RV 503) so that snow-noise and cross-modulation just disappear from the picture.

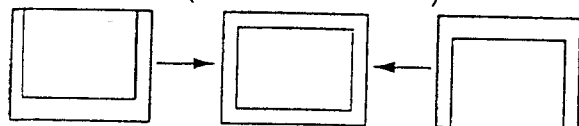
RV 504 H.CENT (HORIZONTAL CENTER)



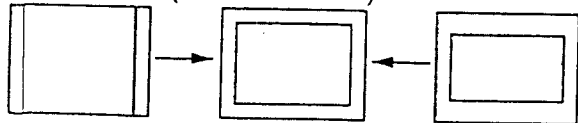
RV 801 H.SIZE (HORIZONTAL SIZE)



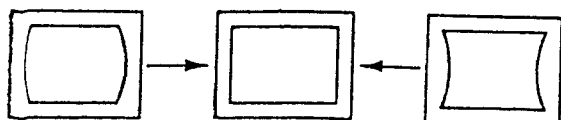
RV 501 V.CENT (VERTICAL CENTER)



RV 505 V.SIZE (VERTICAL SIZE)

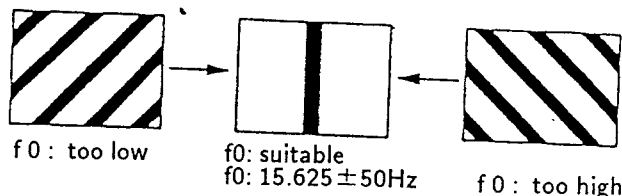


RV 802 PIN AMP (PINCUSHION AMPLIFIER)



H.FREQ Adjustment (RV 502)

1. Input a PAL COLOR BAR signal, then connect an electrolytic capacitor (100 μ /16 V) between pin 28 and GND of IC 502.
2. Adjust RV 502 (H.FREQ) to stop scrolling of the picture in the horizontal direction.
3. After adjustment, remove the electrolytic capacitor.



REF OSC 7.16 MHz Adjustment (CT 331)

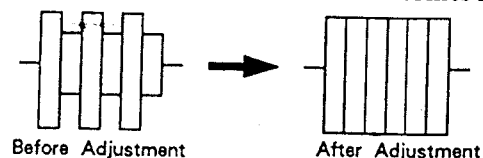
1. Input an NTSC COLOR BAR pattern.
2. Short circuit between pin 17 of IC 331 and ground.
3. Adjust CT 331 to obtain color synchronization.
4. Remove the jumper wire from IC 331.

REF OSC 8.8 MHz Adjustment (CT 332)

1. Input a PAL COLOR BAR pattern.
2. Short circuit between pin 17 of IC 331 and ground.
3. Adjust CT 332 to obtain color synchronization.
4. Remove the jumper wire from IC 331.

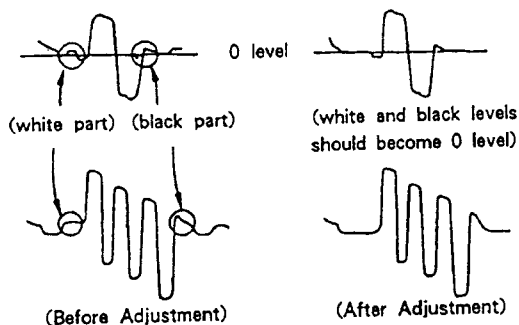
BELL FILTER Adjustment (LV 301)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q 302 emitter.
3. Adjust LV 301 so that waveform becomes flat.



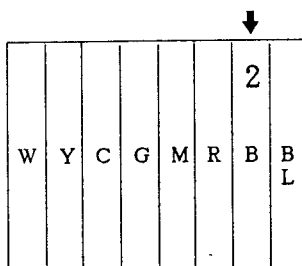
SECAM DISCRI Adjustment (RV 331 R-Y L 331 B-Y)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC 301.
3. Adjust RV 331(R-Y) so that white and black parts of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope to pin ③ of IC 301.
5. Adjust L 331(B-Y) so that white and black parts of the waveform of pin ③ becomes 0 level.

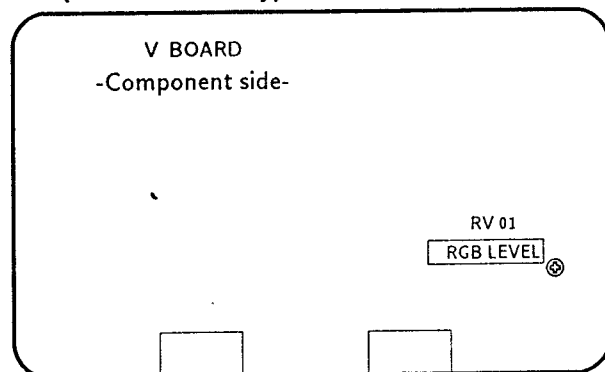


CHARACTER POSITION Adjustment (RV 001)

1. Input PAL COLOR BAR pattern.
2. Adjust RV 001 to position the charcter display at the point indicated by the arrow below.



4-2. V BOARD ADJUSTMENT (KV-M2141K only)



RGB LEVEL Adjustment (RV 01)

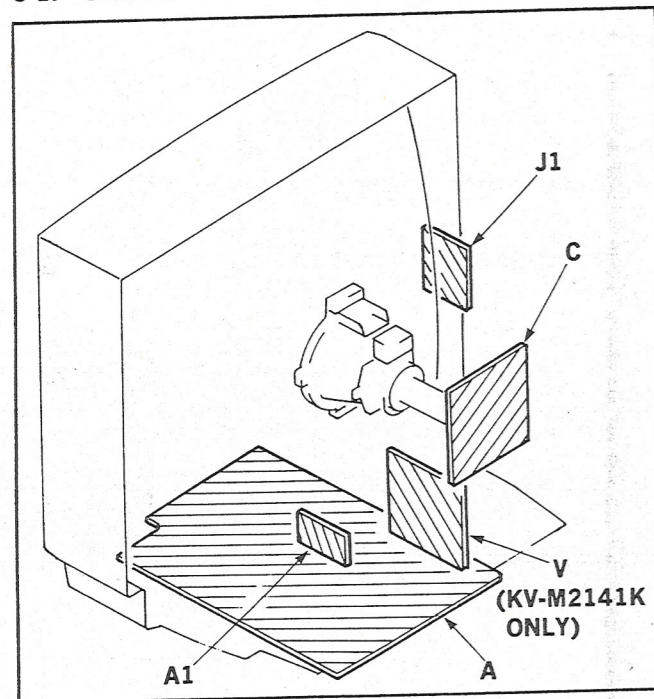
1. Set PICTURE to maximum.
2. Adjust RV01 till the RGB output becomes maximum.

SECTION 5
DIAGRAMSSYSTEM CONTROL, A/V OUT,
H/V OUT, MEMORY, CHROMA

A

A

5-1. CIRCUIT BOARDS LOCATION



Note: The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power is as follows.

Pitch : 5mm
Rating electrical power : 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms, $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltage are in V.
- Readings are taken with a 10M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : Signal path. (RF)

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

5-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

A BOARD

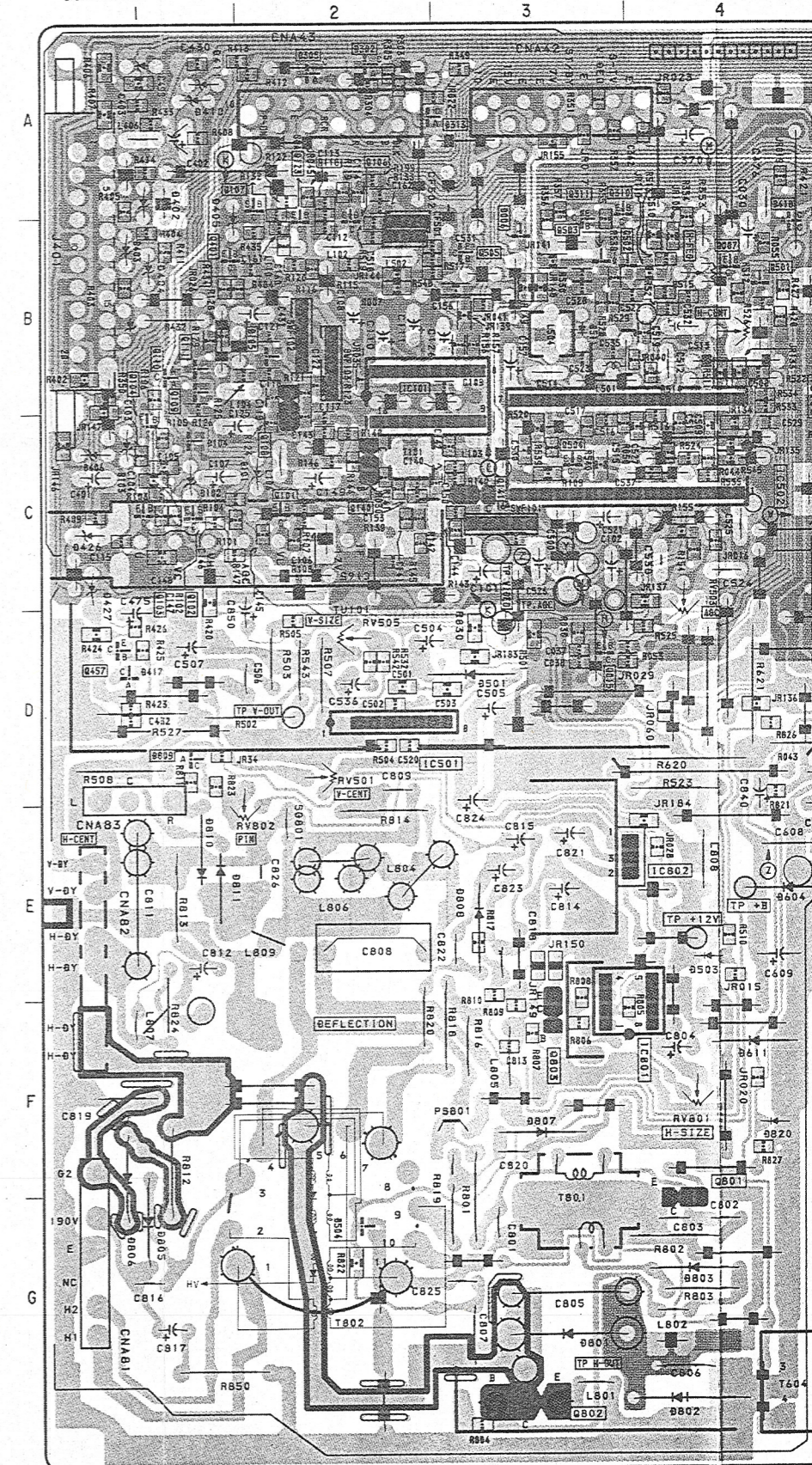
IC		Q307	B-6	0501	B-3	COIL	
IC001	B-9	Q310	A-3	0503	E-4	LV301	C-7
IC002	0-9	Q311	A-3	0504	G-2		L331
IC003	0-10	Q401	B-2	0511	B-3		
IC004	E-9	Q457	0-1	0519	C-8		
IC005	B-8	Q501	B-4	0601	F-7		
IC101	B-2	Q502	B-3	0602	F-6		
IC102	B-5	Q503	B-3	0603	F-5		
IC201	F-8	Q504	C-3	0604	E-4		
IC301	B-5	Q505	B-3	0605	E-6		
IC302	B-7	Q601	G-5	0606	0-5		
IC331	C-7	Q801	G-4	0607	G-5		
IC501	B-2	Q802	H-3	0608	H-5		
IC502	C-4	Q803	F-3	0609	G-5		
IC601	G-5	Q1301	B-9	0610	G-5		
IC801	F-3	Q1302	B-10	0611	F-4		
IC802	E-4	Q1303	B-10	0601	G-3		
		Q1304	A-10	0602	H-4		
		Q1305	A-10	0603	G-4		
		Q1306	B-10	0605	G-1		
				0606	F-1		
				0607	F-3		
				0608	E-3		
				0609	0-1		
				0620	F-4		
				Q1301	B-10		
				Q1302	B-10		
				Q1303	B-10		
				Q1304	A-10		
				Q1305	A-10		
				Q1306	B-10		
				Q1307	B-10		

TRANSISTOR		DIODE	
0001	B-8	0002	E-10
0003	C-9	0004	C-9
0004	0-10	0006	B-3
0005	B-8	0007	B-8
0006	C-8	0008	0-10
0007	B-4	0009	B-8
0015	0-3	0020	B-8
0016	0-10	Q101	C-2
0017	E-9	Q102	C-1
0019	0-10	Q103	C-1
0020	0-8	Q105	B-2
Q101	C-2	Q110	C-5
Q102	C-1	Q301	C-6
Q103	C-1	Q302	A-2
Q104	C-1	Q303	B-6
Q106	A-2	Q305	A-2
Q107	A-2	Q306	B-6
Q108	C-2	Q313	A-3
Q109	B-1	Q321	C-5
Q110	B-1	Q324	A-7
Q111	B-1	Q333	0-7
Q112	A-7	Q402	A-1
Q113	B-5	Q403	B-1
Q114	B-5	Q404	B-1
Q115	A-6	Q405	A-2
Q123	A-2	Q406	C-1
Q140	C-2	Q410	A-1
Q141	C-3	Q411	A-1
Q302	C-7	Q417	0-1
Q303	C-7	Q418	A-4
Q304	B-6	Q426	C-1
Q305	B-6		
Q306	B-6		

VARIABLE RESISTOR	
RV001	0-9
RV331	C-6
RV501	0-2
RV502	B-4
RV503	C-4
RV504	B-4
RV505	0-2
RV801	F-4
RV802	E-2

TRIMMER	
CT331	C-7
CT332	C-7

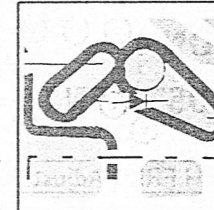
— A Board —



KV-M2140K/M2141K
RM-694

A

A

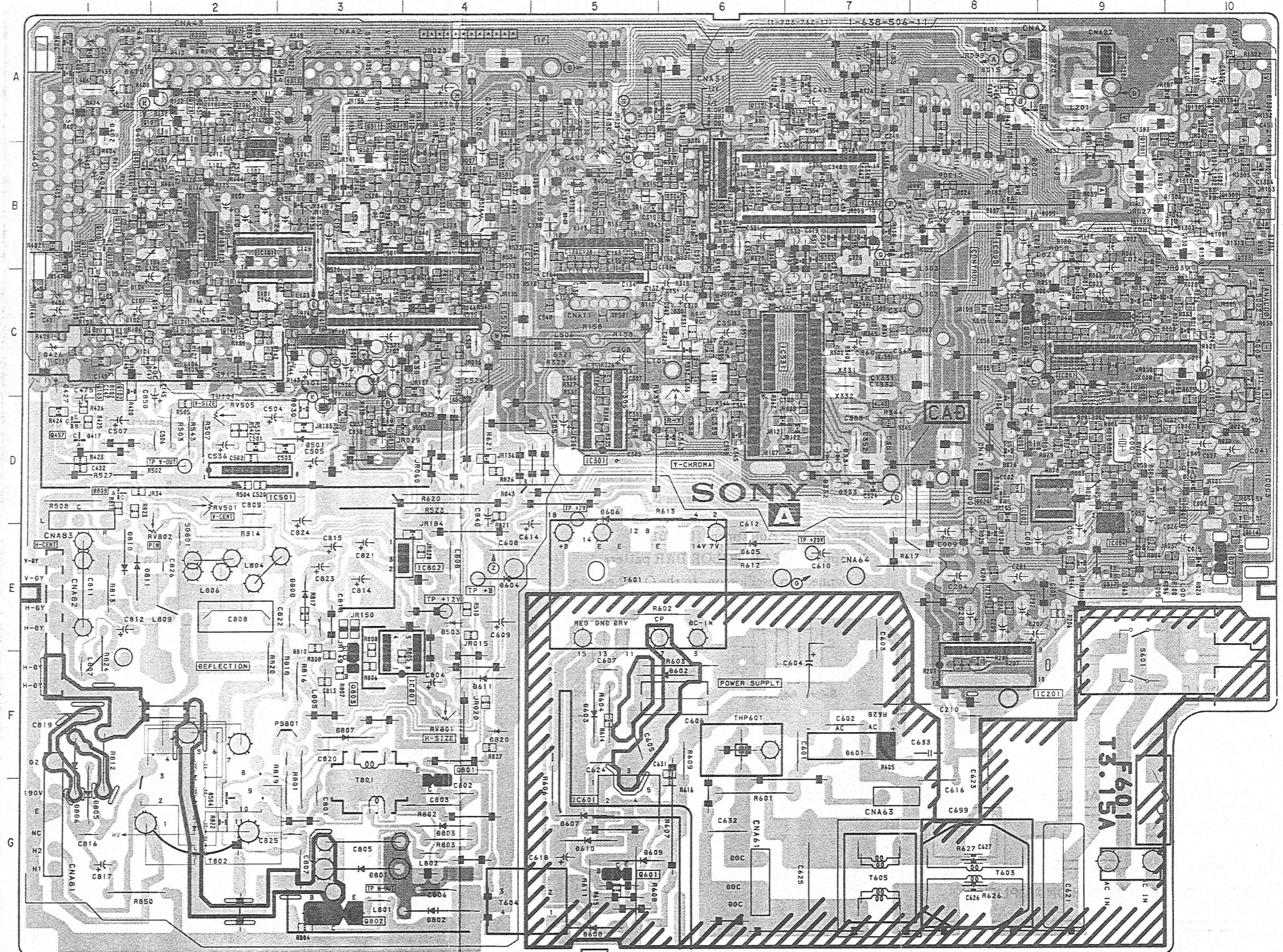


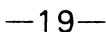
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

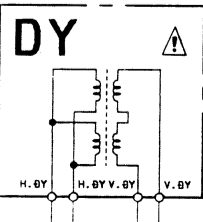
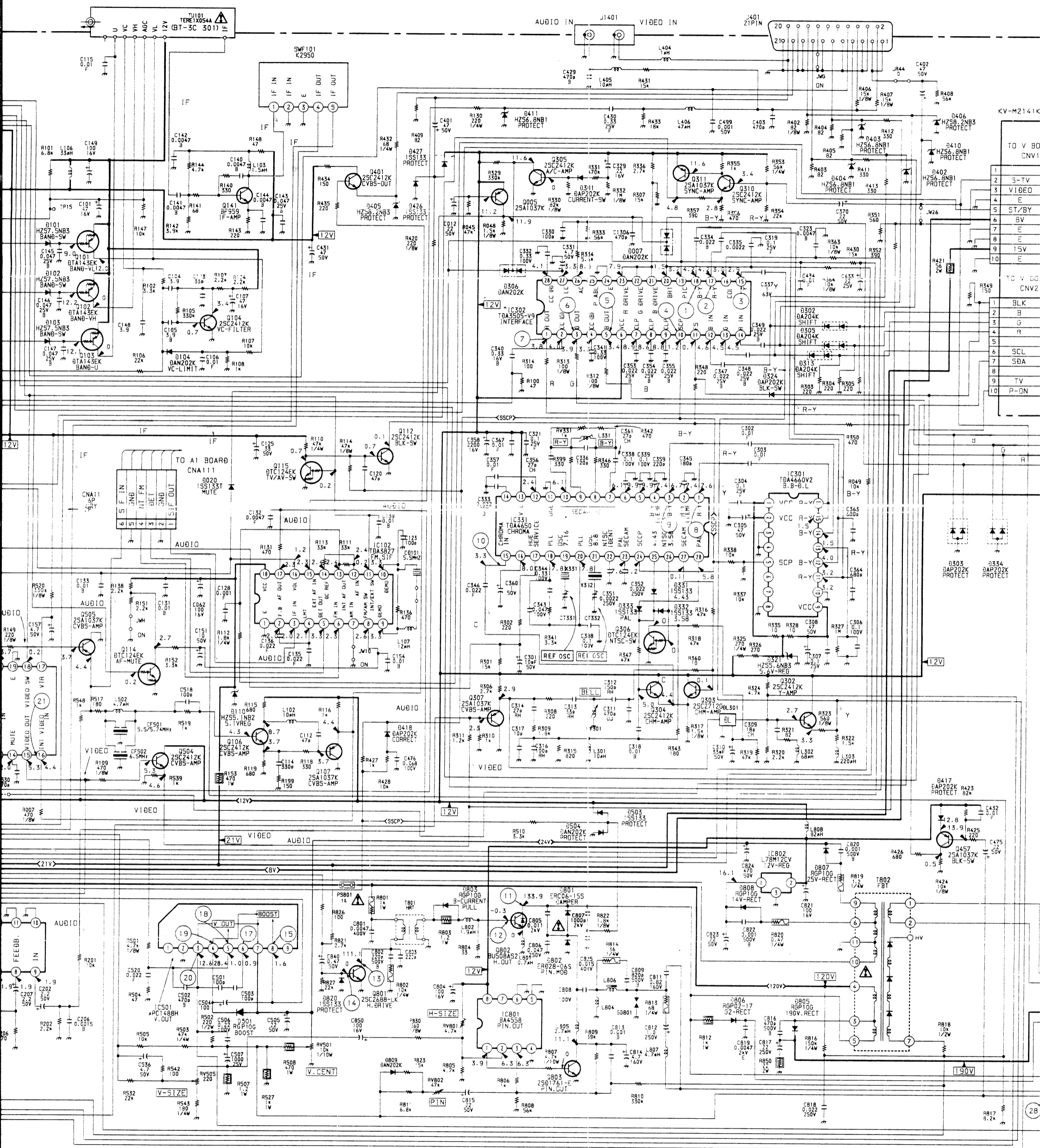
A BOARD

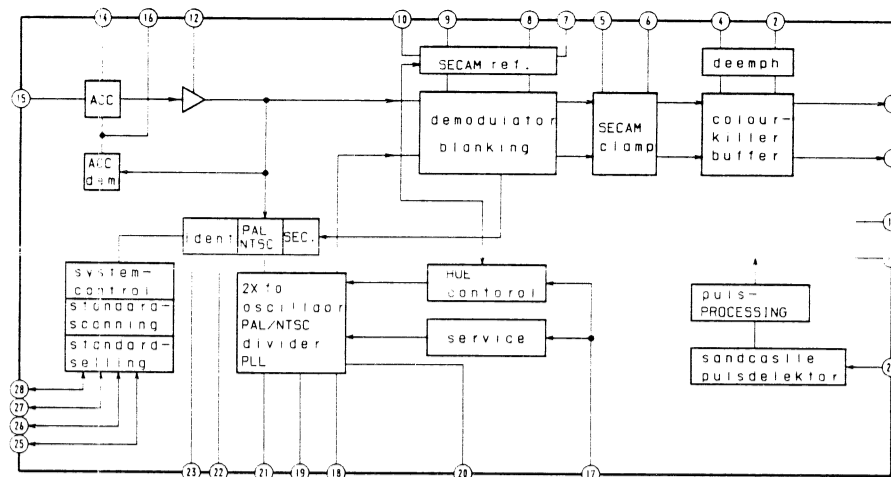
IC		Q307	B-6	Q501	B-3	COIL	
IC001	B-9	Q310	A-3	Q503	E-4		
IC002	B-9	Q311	A-3	Q504	G-2	LV301	C-7
IC003	B-10	Q401	B-2	Q511	B-3	L331	C-6
IC004	E-9	Q457	B-1	Q519	C-8		
IC005	B-8	Q501	B-4	Q601	F-7		
IC101	B-2	Q502	B-3	Q602	F-6		
IC102	B-5	Q503	B-3	Q603	F-5		
IC201	F-8	Q504	C-3	Q604	E-4		
IC301	B-5	Q505	B-3	Q605	E-6		
IC302	B-7	Q601	G-5	Q606	B-5		
IC331	C-7	Q801	G-4	Q607	G-5		
IC501	B-2	Q802	H-3	Q608	H-5		
IC502	C-4	Q803	F-3	Q609	G-5		
IC601	G-5	Q1301	B-9	Q610	G-5		
IC801	F-3	Q1302	B-10	Q611	F-4		
IC802	E-4	Q1303	B-10	Q801	G-3		
		Q1304	A-10	Q802	H-4		
		Q1305	A-10	Q803	G-4		
		Q1306	B-10	Q805	G-1		
TRANSISTOR				Q806	F-1		
Q001	B-8	DIODE		Q807	F-3		
Q003	C-9	Q002	E-10	Q808	E-3		
Q004	B-10	Q004	C-9	Q809	B-1		
Q005	B-8	Q006	B-3	Q820	F-4		
Q006	C-8	Q007	B-8	Q1301	B-10		
Q007	B-4	Q008	B-10	Q1302	B-10		
Q015	B-3	Q009	B-8	Q1303	B-10		
Q016	B-10	Q020	B-8	Q1304	A-10		
Q017	E-9	Q101	C-2	Q1305	A-10		
Q019	B-10	Q102	C-1	Q1306	B-10		
Q020	B-8	Q103	C-1	Q1307	B-10		
Q101	C-2	Q105	B-2				
Q102	C-1	Q110	C-5	VARIABLE			
Q103	C-1	Q301	C-6	RESISTOR			
Q104	C-1	Q302	A-2	RV001	B-9		
Q106	A-2	Q303	B-6	RV331	C-6		
Q107	A-2	Q304	A-2	RV501	B-2		
Q108	C-2	Q306	B-6	RV502	B-4		
Q109	B-1	Q321	C-5	RV503	C-4		
Q110	B-1	Q324	A-7	RV504	B-4		
Q111	B-1	Q333	D-7	RV505	D-2		
Q112	A-7	Q402	A-1	RV801	F-4		
Q113	B-5	Q403	B-1	RV802	E-2		
Q114	B-5	Q404	B-1				
Q115	A-6	Q405	A-2				
Q123	A-2	Q406	C-1				
Q140	C-2	Q410	A-1				
Q141	C-3	Q411	A-1				
Q302	C-7	Q417	D-1	TRIMMER			
Q303	C-7	Q418	A-4	CT331	C-7		
Q304	B-6	Q426	C-1	CT332	C-7		
Q305	B-6						
Q306	B-6						

— A Board —







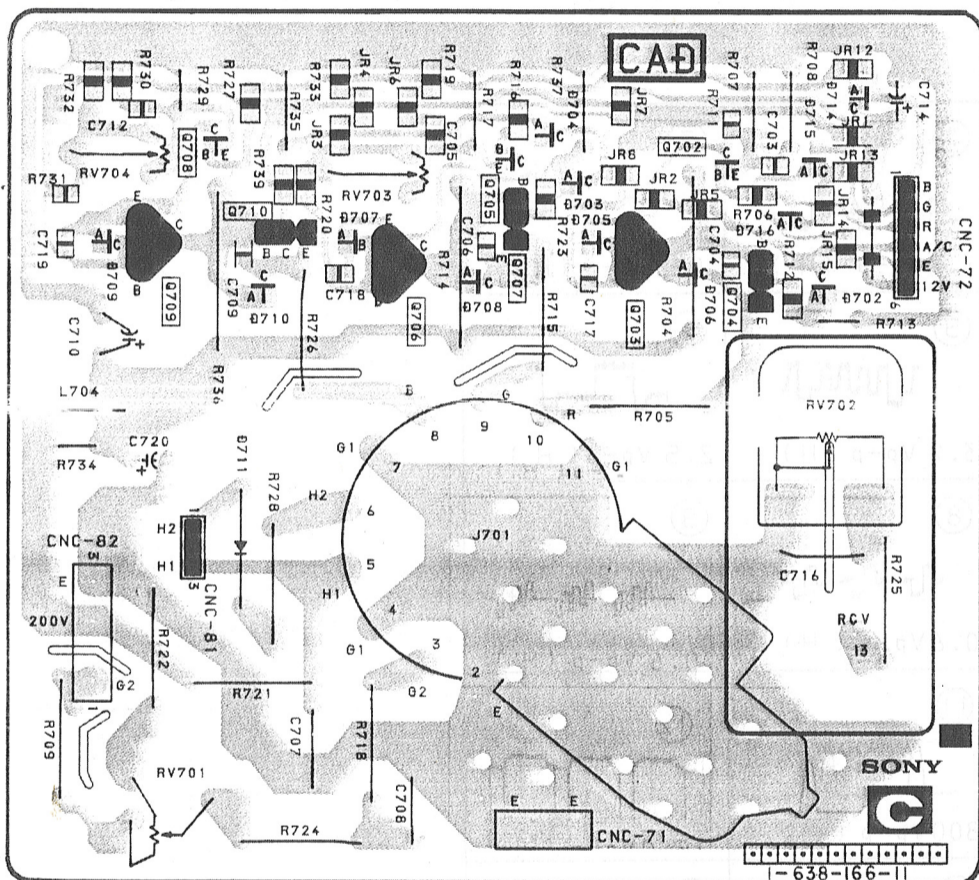


The diagram illustrates the color control system for a color television receiver. It shows the flow of signals from the input (R, G, B) through various control stages to the final output stages. The system includes a 5 X SIGNAL SWITCH, CONTRAST CONTROL, BRIGHTNESS CONTROL, and a series of comparators and converters for color control. The output stages include a SWITCHING AND CLAMPING CIRCUIT and a COUNTER & PULSE FORMER. The diagram also shows the connection to a SANDCASTLE DETECTOR and a THRESHOLD DETECTOR CURRENT SOURCE. The system is powered by a 2.7V supply and a 4.2V supply. The output is connected to a 50Ω load.

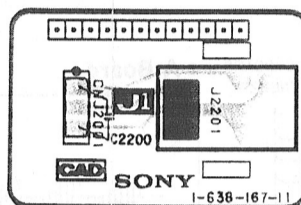
<p>①</p> <p>1.5Vp-p (H)</p>	<p>②</p> <p>1.2Vp-p (H)</p>	<p>③</p> <p>0.5Vp-p (H)</p>
<p>④</p> <p>8.5Vp-p (H)</p>	<p>⑤</p> <p>3.2Vp-p (H)</p>	<p>⑥</p> <p>2.5Vp-p (H)</p>
<p>⑦</p> <p>2.5Vp-p (H)</p>	<p>⑧</p> <p>0.6Vp-p (H)</p>	<p>⑨</p> <p>0.6Vp-p (H)</p>
<p>⑩</p> <p>0.24Vp-p (H)</p>	<p>⑪</p> <p>800Vp-p (H)</p>	<p>⑫</p> <p>15.0Vp-p (H)</p>
<p>⑬</p> <p>230Vp-p (H)</p>	<p>⑭</p> <p>1.4Vp-p (H)</p>	<p>⑮</p> <p>2.4Vp-p (V)</p>
	<p>⑰</p> <p>2.0Vp-p (V)</p>	<p>⑱</p> <p>1.3Vp-p (V)</p>
<p>⑲</p> <p>2.0Vp-p (V)</p>	<p>⑳</p> <p>50Vp-p (V)</p>	<p>㉑</p> <p>2.0Vp-p (H)</p>
<p>㉒</p> <p>1.6Vp-p (V)</p>	<p>㉓</p> <p>1.8Vp-p (V)</p>	<p>㉔</p> <p>1.8Vp-p (H)</p>
<p>㉕</p> <p>3.6Vp-p (H)</p>	<p>㉖</p> <p>1.7Vp-p (10MHz)</p>	<p>㉗</p> <p>160Vp-p (H)</p>
<p>㉘</p> <p>4.6Vp-p (V)</p>		

A1 [R. G. B OUT] **C** [JACK] **J1** [TEXT] **V**

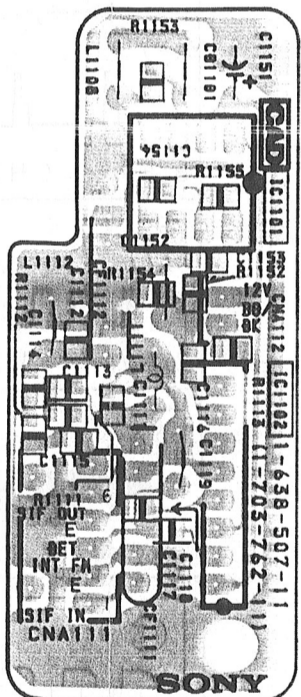
— C Board —



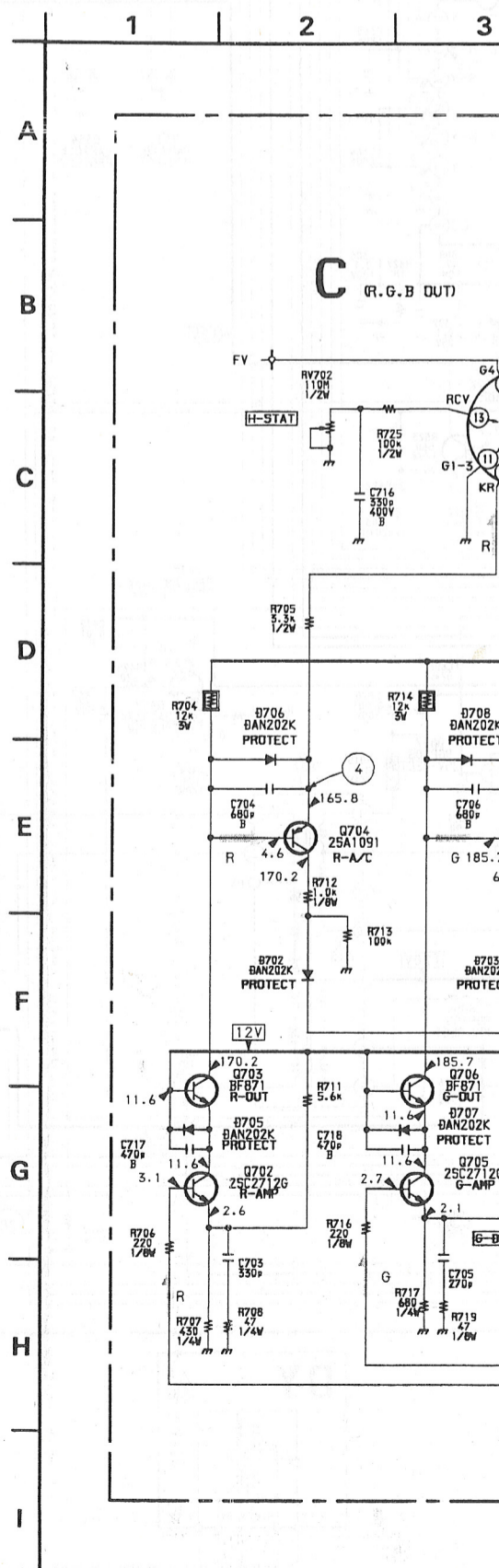
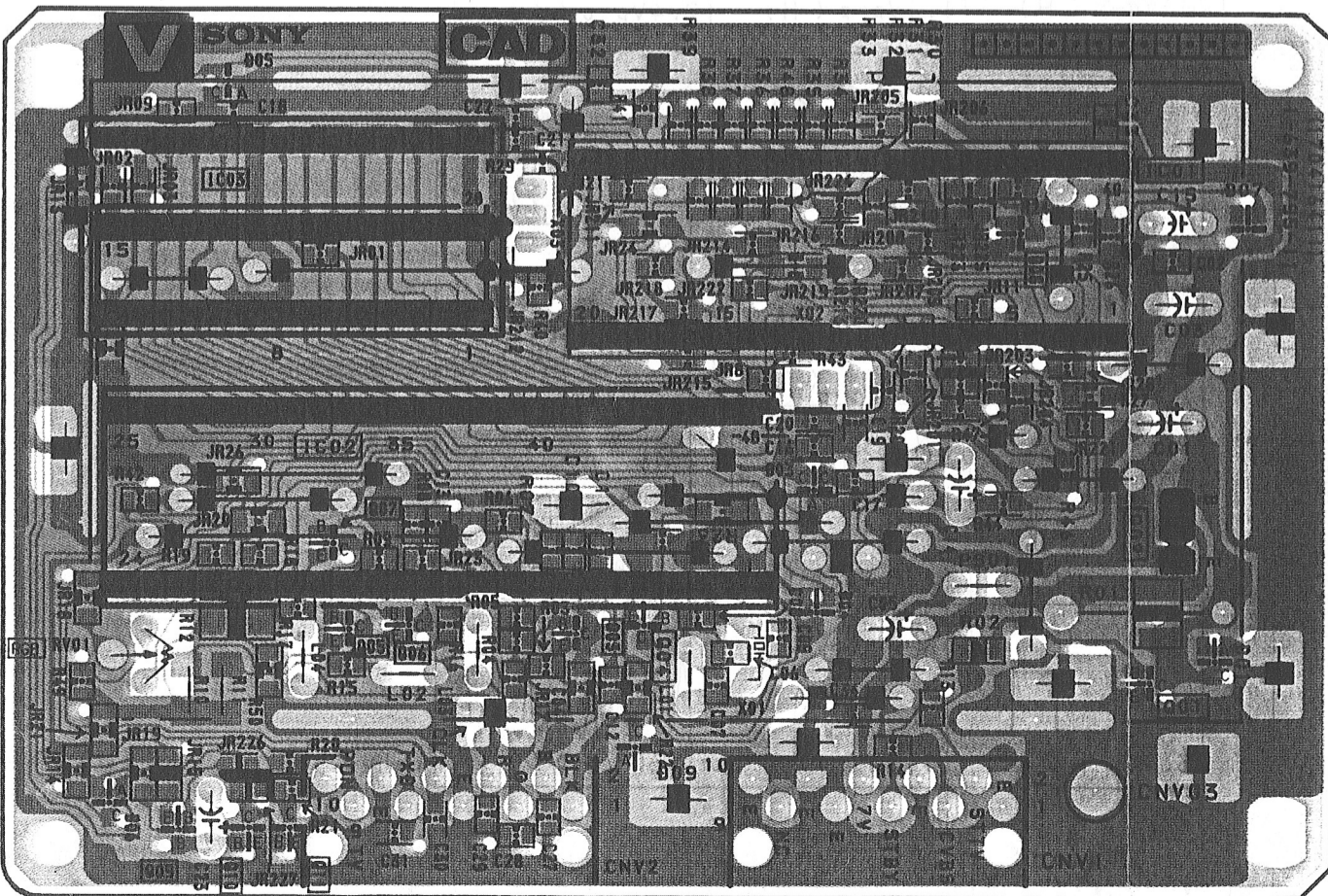
— J1 Board —



— A1 Board —

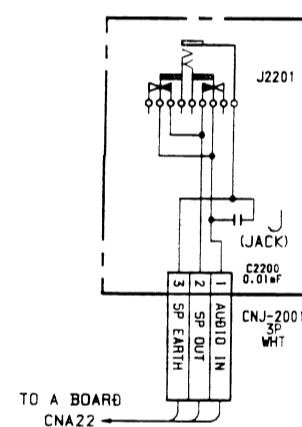
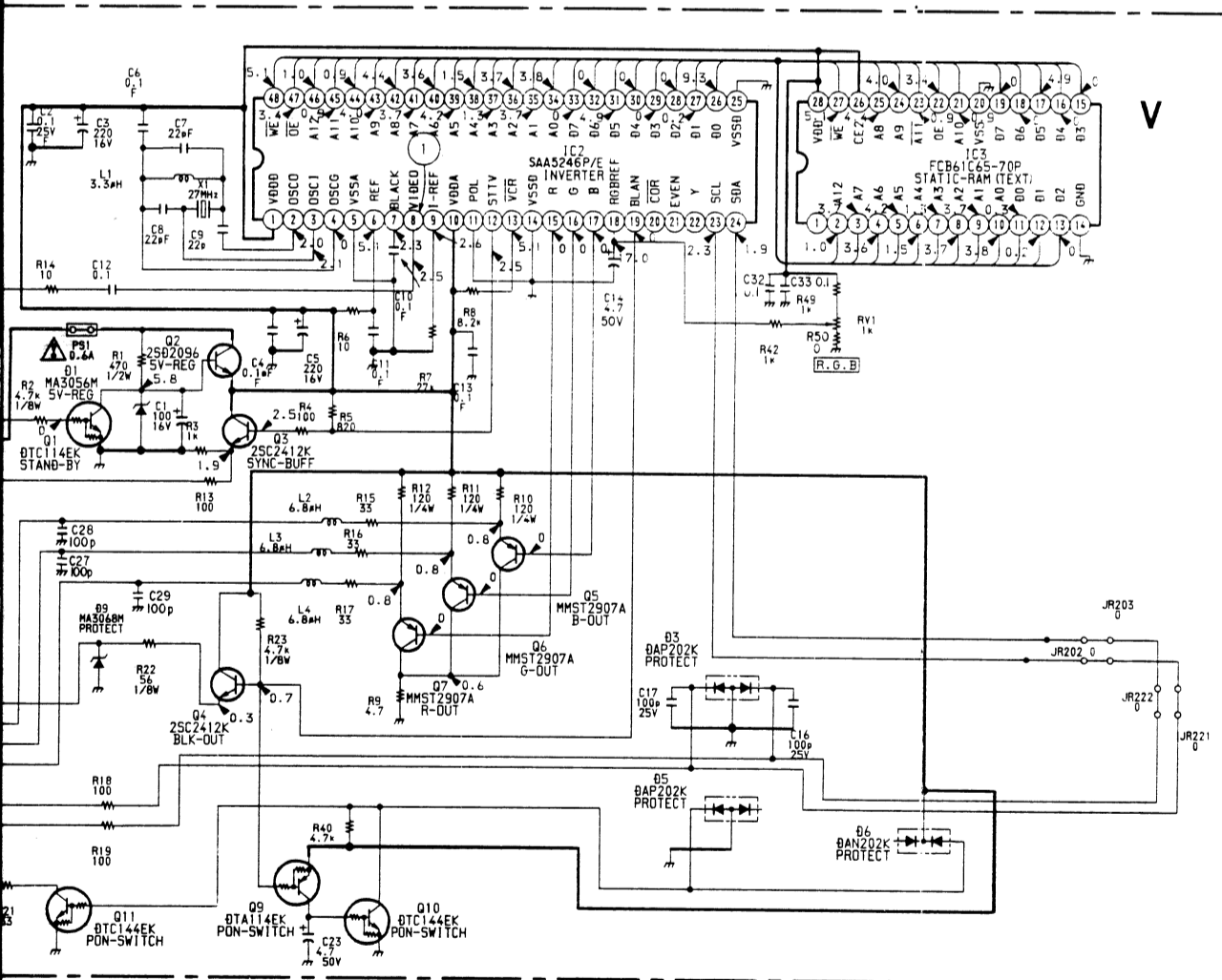


— V Board — (KV-M2141K ONLY)

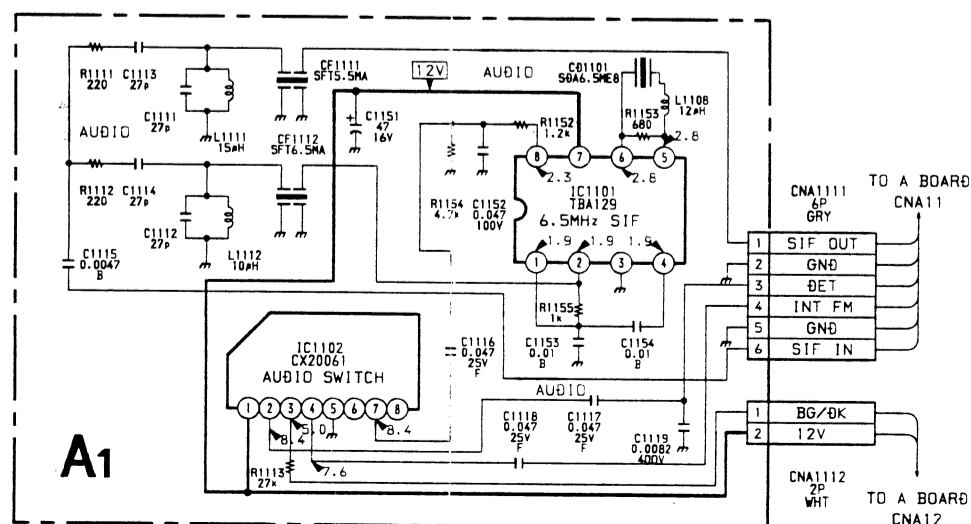
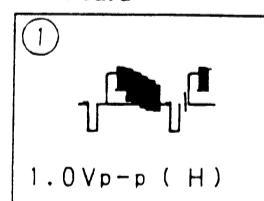


13 14 15 16 17 18 19 20 21 22

2141K ONLY)

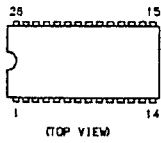


• V Board

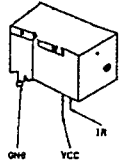


5-3. SEMICONDUCTORS

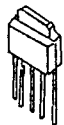
FCB61C65-70P
TDA3505-V9



KEY-C00SV-F



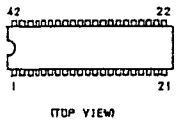
L78LR050-MA



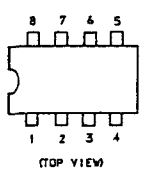
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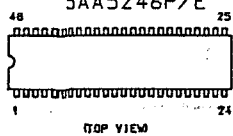
PCA84C840-BE2A



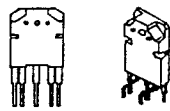
RC4558P
ST24C62CP



SAAS246P/E

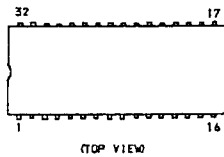


STR54041

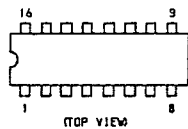


TDA3827
TDA7245

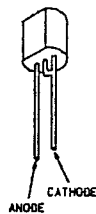
TDA8304



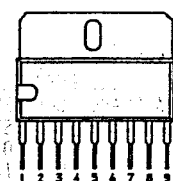
TDA4510/V6
TDA4660V2



μPC574J



μPC1488H



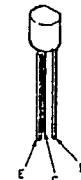
BC637-16-AMM0



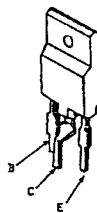
BF871



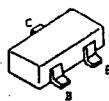
BF959



BUS08AS2



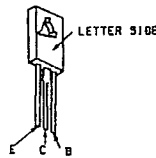
0TA114EK
0TA143EK
0TA144EK
0TC114EK
0TC124EK
0TC144EK
2SA1162G
2SB1295-UL6
2SC2412K-R
2SC2712G



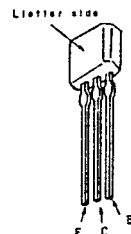
2SA1091-0



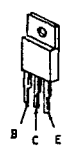
2SC2688-LK



2SC2785-HFE



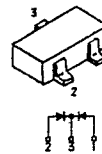
2SB1585-K



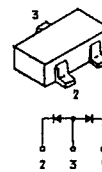
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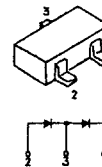
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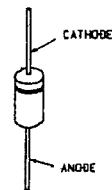
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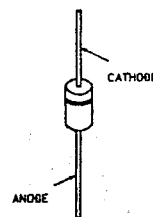
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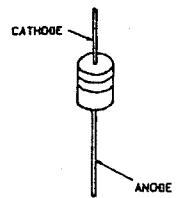
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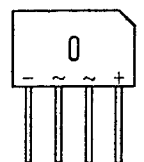
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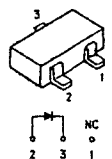
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HZS8.2NB3
RD6.8ES-B1
1SS119



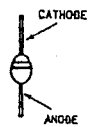
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MA3051
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RD6.8M-B2



U05G




SECTION 6 EXPLODED VIEW

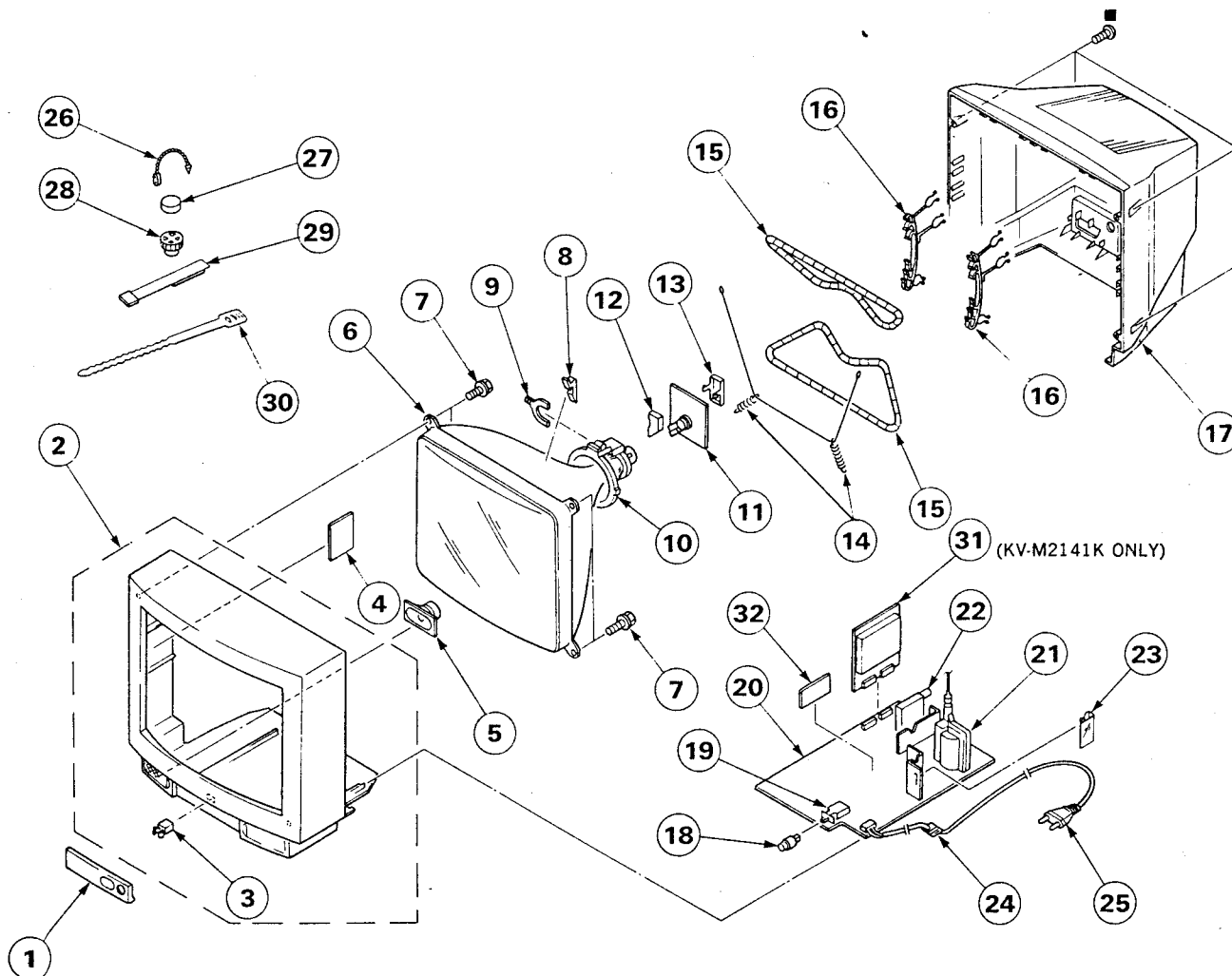
NOTE:









- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

■: BVTP4×16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4200-081-1	DOOR ASSY (KV-M2141K ONLY)		17	4-200-673-01	COVER, REAR	
	X-4200-081-3	DOOR ASSY (KV-M2140K ONLY)		18	4-200-674-01	BUTTON, POWER	
2	X-4200-071-1	CABINET ASSY (WITH BEZEL ASSY) (BLACK)	3	19	 1-571-433-12	SWITCH, PUSH-(AC POWER)	
3	4-392-036-01	CATCHER, PUSH		20	A-1632-056-A	A BOARD, COMPLETE	
4	*1-638-167-11	J1 BOARD		21	 1-439-416-51	TRANSFORMER ASSY, FLYBACK™ (UX=1650)	
5	1-503-258-21	SPEAKER		22	 1-465-541-11	TUNER (BT-3C 801)	
6	 8-738-753-05	PICTURE TUBE (A51JXH60X)		23	*9-910-999-33	PLATE, INSULATION	
7	4-382-733-01	SCREW (S), PT		24	 4-389-201-02	HOLDER, AC CORD	
8	3-704-495-01	SPACER, DY		25	 1-590-460-11	CORD, POWER (WITH CONNECTOR)	
9	1-452-277-00	MAGNET, BMC		26	4-308-870-00	CLIP, LEAD WIRE	
10	 1-451-295-11	DEFLECTION YOKE (Y21PFA2)		27	1-452-032-00	MAGNET, DISK: 10MM φ	
11	A-1638-016-A	C BOARD, COMPLETE		28	1-452-094-00	MAGNET, ROTABLE DISK: 15MM φ	
12	*4-379-167-01	COVER (MAIN), CV		29	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
13	*4-379-160-01	COVER (REAR LID), CV		30	3-701-007-00	BAND, BINDING	
14	4-200-433-01	SPRING, EXTENSION		31	A-1645-020-A	V BOARD, COMPLETE (KV-M2141K ONLY)	
15	 1-426-383-11	COIL, DEMAGNETIZATION		32	A-1630-060-A	A1 BOARD, COMPLETE	
16	*4-386-622-01	BAND, DGC					

SECTION 7
ELECTRICAL PARTS LIST

A1

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NOTE:

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS COILS
• MF : μ F, PF : μ F • MMH : mH, UH : μ H

RESISTORS

• All resistors are in ohms
• F : nonflammable

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	A-1630-060-A	A1 BOARD, COMPLETE *****			A-1632-056-A	A BOARD, COMPLETE *****	
	1-573-787-11	SOCKET, CONNECTOR 6P			4-200-399-01	SPACER, IC	
		<CAPACITOR>			4-200-407-01	HOLDER, LED	
C1111	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	*4-341-751-01	EYELET		
C1112	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	*4-341-752-01	EYELET		
C1113	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	*4-368-683-01	SPRING		
C1114	1-163-103-00	CERAMIC CHIP 27PF	5% 50V				
C1115	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	*4-389-343-01	SPRING		
		<CAPACITOR>					
C1116	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C001	1-126-101-11	ELECT 100MF	20% 16V
C1117	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C002	1-106-220-00	MYLAR 0.1MF	10% 100V
C1118	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C003	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C1119	1-106-365-00	MYLAR 0.0082MF	10% 400V	C004	1-123-382-00	ELECT 3.3MF	20% 50V
C1151	1-124-477-11	ELECT 47MF	20% 16V	C005	1-126-103-11	ELECT 470MF	20% 16V
C1152	1-106-383-00	MYLAR 0.047MF	10% 100V	C006	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C1153	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C007	1-124-907-11	ELECT 10MF	20% 50V
C1154	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C009	1-124-907-11	ELECT 10MF	20% 50V
		<FILTER>		C010	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
CD1101	1-404-710-11	DISCRIMINATOR, CERAMIC		C012	1-126-233-11	ELECT 22MF	20% 50V
CF1111	1-527-840-00	FILTER, CERAMIC		C018	1-164-232-11	CERAMIC CHIP 0.01MF	50V
CF1112	1-567-570-11	FILTER, CERAMIC		C020	1-124-903-11	ELECT 1MF	20% 50V
		<CONNECTOR>		C021	1-124-907-11	ELECT 10MF	20% 50V
CNA111	*1-568-877-51	PIN, CONNECTOR 2P		C022	1-124-907-11	ELECT 10MF	20% 50V
		<IC>		C023	1-124-907-11	ELECT 10MF	20% 50V
IC1101	8-759-003-90	IC TBA129		C024	1-124-907-11	ELECT 10MF	20% 50V
IC1102	8-752-006-12	IC CX20061		C025	1-126-233-11	ELECT 22MF	20% 50V
		<COIL>		C026	1-124-903-11	ELECT 1MF	20% 50V
L1108	1-408-410-00	INDUCTOR 12UH		C030	1-124-903-11	ELECT 1MF	20% 50V
L1111	1-408-411-00	INDUCTOR 15UH		C037	1-163-034-00	CERAMIC CHIP 0.033MF	50V
L1112	1-408-409-00	INDUCTOR 10UH		C038	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
		<RESISTOR>		C039	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R1111	1-216-033-00	METAL GLAZE 220 5% 1/10W		C041	1-124-478-11	ELECT 100MF	20% 25V
R1112	1-216-033-00	METAL GLAZE 220 5% 1/10W		C055	1-163-075-00	CERAMIC CHIP 0.047MF	50V
R1113	1-216-083-00	METAL GLAZE 27K 5% 1/10W		C058	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V
R1152	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		C059	1-164-232-11	CERAMIC CHIP 0.01MF	50V
R1153	1-216-045-00	METAL GLAZE 680 5% 1/10W		C062	1-126-101-11	ELECT 100MF	20% 16V
R1154	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		C063	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
R1155	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C101	1-124-477-11	ELECT 47MF	20% 16V
				C102	1-124-910-11	ELECT 47MF	20% 50V
				C103	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
				C104	1-164-665-11	CERAMIC CHIP 0.039MF	10% 50V
				C105	1-164-665-11	CERAMIC CHIP 0.039MF	10% 50V
				C106	1-164-232-11	CERAMIC CHIP 0.01MF	50V
				C107	1-124-477-11	ELECT 47MF	20% 16V
				C112	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
				C114	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
				C115	1-164-232-11	CERAMIC CHIP 0.01MF	50V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C120	1-163-173-00	CERAMIC CHIP 47PF	5% 50V	C340	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V
C123	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C341	1-130-783-00	MYLAR 0.33MF	10% 100V
C125	1-124-917-11	ELECT 33MF	20% 50V	C343	1-106-383-00	MYLAR 0.047MF	10% 100V
C128	1-163-009-11	CERAMIC CHIP 0.001MF	50V	C344	1-130-783-00	MYLAR 0.33MF	10% 100V
C131	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C345	1-163-187-00	CERAMIC CHIP 180PF	5% 50V
C132	1-136-017-00	CERAMIC CHIP 0.0047MF	50V	C346	1-163-033-00	CERAMIC CHIP 0.022MF	50V
C133	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C347	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C135	1-163-033-00	CERAMIC CHIP 0.022MF	50V	C348	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C136	1-163-033-00	CERAMIC CHIP 0.022MF	50V	C349	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C139	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C351	1-106-375-12	MYLAR 0.022MF	10% 250V
C140	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C352	1-106-375-12	MYLAR 0.022MF	10% 250V
C141	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C353	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C142	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C354	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C143	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C355	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
C144	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C356	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C145	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C357	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C146	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C358	1-124-556-11	ELECT 2200MF	20% 16V
C147	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C359	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C148	1-164-665-11	CERAMIC CHIP 0.039MF	10% 50V	C360	1-124-903-11	ELECT 1MF	20% 50V
C149	1-126-101-11	ELECT 100MF	20% 16V	C361	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C151	1-124-907-11	ELECT 10MF	20% 50V	C363	1-163-201-00	CERAMIC CHIP 680PF	5% 50V
C154	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C364	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C157	1-124-927-11	ELECT 4.7MF	20% 50V	C367	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C201	1-126-233-11	ELECT 22MF	20% 50V	C370	1-126-233-11	ELECT 22MF	20% 50V
C202	1-124-925-11	ELECT 2.2MF	20% 50V	C388	1-106-220-00	MYLAR 0.1MF	10% 100V
C203	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C401	1-124-910-11	ELECT 47MF	20% 50V
C204	1-124-480-11	ELECT 470MF	20% 25V	C403	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C206	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	C404	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C207	1-124-925-11	ELECT 2.2MF	20% 50V	C429	1-163-197-00	CERAMIC CHIP 470PF	10% 50V
C208	1-126-104-11	ELECT 470MF	20% 35V	C430	1-164-336-11	CERAMIC CHIP 0.33MF	25V
C209	1-124-910-11	ELECT 47MF	20% 50V	C431	1-124-910-11	ELECT 47MF	20% 50V
C210	1-106-228-00	MYLAR 0.22MF	10% 100V	C432	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C301	1-124-907-11	ELECT 10MF	20% 50V	C433	1-126-233-11	ELECT 22MF	20% 25V
C302	1-163-059-00	CERAMIC CHIP 0.01MF	50V	C434	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C303	1-163-059-00	CERAMIC CHIP 0.01MF	50V	C475	1-126-233-11	ELECT 22MF	20% 50V
C304	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C476	1-106-216-00	MYLAR 0.068MF	10% 100V
C305	1-124-910-11	ELECT 47MF	20% 50V	C490	1-124-910-11	ELECT 47MF	20% 50V
C306	1-106-220-00	MYLAR 0.1MF	10% 100V	C499	1-163-205-00	CERAMIC CHIP 0.001MF	10% 50V
C307	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C501	1-163-181-00	CERAMIC CHIP 100PF	5% 50V
C308	1-124-910-11	ELECT 47MF	20% 50V	C502	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C309	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C503	1-163-181-00	CERAMIC CHIP 100PF	5% 50V
C310	1-124-917-11	ELECT 33MF	20% 50V	C504	1-124-122-11	ELECT 100MF	20% 50V
C311	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C505	1-126-233-11	ELECT 22MF	20% 50V
C312	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C506	1-106-228-00	MYLAR 0.22MF	10% 100V
C313	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C507	1-124-557-11	ELECT 1000MF	20% 25V
C314	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C508	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C315	1-163-427-91	CERAMIC CHIP 68PF	5% 50V	C509	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V
C316	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C510	1-163-081-00	CERAMIC CHIP 0.22MF	25V
C317	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	C511	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C318	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C512	1-106-216-00	MYLAR 0.068MF	10% 100V
C319	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C513	1-124-927-11	ELECT 4.7MF	20% 50V
C321	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C514	1-136-298-00	FILM 0.0033MF	5% 100V
C323	1-163-055-00	CERAMIC CHIP 0.0047MF	10% 50V	C515	1-163-035-00	CERAMIC CHIP 0.047MF	50V
C329	1-131-367-00	TANTALUM 22MF	10% 16V	C516	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C330	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C517	1-163-033-00	CERAMIC CHIP 0.022MF	50V
C331	1-124-927-11	ELECT 4.7MF	20% 50V	C518	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C332	1-130-783-00	MYLAR 0.33MF	10% 100V	C520	1-163-033-00	CERAMIC CHIP 0.022MF	50V
C333	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	C521	1-131-377-00	TANTALUM 10MF	10% 10V
C334	1-163-063-00	CERAMIC CHIP 0.022MF	10% 50V	C524	1-106-228-00	MYLAR 0.22MF	10% 100V
C335	1-163-063-00	CERAMIC CHIP 0.022MF	10% 50V	C525	1-106-216-00	MYLAR 0.068MF	10% 100V
C336	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C526	1-124-910-11	ELECT 47MF	20% 50V
C337	1-130-834-00	MYLAR 1MF	10% 63V	C527	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C338	1-106-220-00	MYLAR 0.1MF	10% 100V	C529	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C339	1-106-220-00	MYLAR 0.1MF	10% 100V				

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

KV-M2140K/M2141K
RM-694

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C530	1-163-197-00	CERAMIC CHIP 470PF	5% 50V	<CONNECTOR>			
C532	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	CNA11	*1-506-947-11	PIN, CONNECTOR 6P	
C536	1-124-927-11	ELECT 4.7MF	20% 50V	CNA12	*1-568-877-51	PIN, CONNECTOR 2P	
C537	1-163-038-00	CERAMIC CHIP 0.1MF	25V	CNA21	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
C540	1-216-295-00	METAL GLAZE 0	5% 1/10W	CNA22	*1-568-878-51	PIN, CONNECTOR 3P	
C601	Δ 1-161-964-61	CERAMIC 0.0047MF	250V	CNA42	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
C602	Δ 1-161-964-61	CERAMIC 0.0047MF	250V	CNA43	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
C603	1-162-599-12	CERAMIC 0.0047MF	250V	CNA61	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
C604	1-125-318-00	ELECT(BLOCK) 220MF	20% 400V	CNA62	*1-580-844-11	PIN, CONNECTOR (POWER)	
C605	1-161-754-00	CERAMIC 0.001MF	10% 2KV	CNA63	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
C606	1-136-637-11	FILM 0.047MF	10% 630V	CNA64	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
C607	1-106-367-00	MYLAR 0.01MF	10% 400V	CNA81	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
C608	1-161-753-00	CERAMIC 470PF	10% 3KV	CNA82	*1-568-536-11	PLUG (MINIATURE DY) 6P	
C609	1-124-347-00	ELECT 100MF	20% 160V	<TRIMMER>			
C610	1-124-557-11	ELECT 1000MF	20% 25V	CT331	1-141-418-11	CAP, ADJ	
C612	1-102-228-00	CERAMIC 470PF	10% 500V	CT332	1-141-418-11	CAP, ADJ	
C614	1-126-101-11	ELECT 100MF	20% 16V	<DIODE>			
C616	Δ 1-164-246-11	CERAMIC 0.0022MF	20% 400V	D002	8-719-920-55	DIODE SPR-54MWV	
C618	1-126-233-11	ELECT 22MF	20% 50V	D004	8-719-914-44	DIODE DAP202K	
C621	Δ 1-136-517-11	FILM 0.22MF	20% 300V	D007	8-719-400-18	DIODE MA152WK	
C623	Δ 1-164-246-11	CERAMIC 0.0022MF	20% 400V	D008	8-719-400-41	DIODE MA3051	
C625	Δ 1-136-517-11	FILM 0.22MF	20% 300V	D009	8-719-400-41	DIODE MA3051	
C626	Δ 1-163-161-91	CERAMIC CHIP 15PF	5% 50V	D020	8-719-911-19	DIODE 1SS119	
C627	Δ 1-163-161-91	CERAMIC CHIP 15PF	5% 50V	D101	8-719-110-03	DIODE RD7.5ES-B2	
C631	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	D102	8-719-110-03	DIODE RD7.5ES-B2	
C801	1-101-821-00	CERAMIC 0.0022MF	500V	D103	8-719-110-03	DIODE RD7.5ES-B2	
C802	1-102-244-00	CERAMIC 220PF	10% 500V	D104	8-719-400-18	DIODE MA152WK	
C804	1-126-101-11	ELECT 100MF	20% 16V	D110	8-719-109-85	DIODE RD5.1ES-B2	
C805	Δ 1-136-080-11	FILM 0.011MF	3% 2KV	D301	8-719-914-44	DIODE DAP202K	
C806	1-136-187-11	FILM 0.047MF	10% 250V	D302	8-719-800-76	DIODE 1SS226	
C807	Δ 1-161-731-51	CERAMIC 0.001MF	10% 2KV	D303	8-719-914-44	DIODE DAP202K	
C808	1-136-933-11	FILM 1MF	5% 100V	D305	8-719-800-76	DIODE 1SS226	
C809	1-102-212-00	CERAMIC 820PF	10% 500V	D306	8-719-400-18	DIODE MA152WK	
C811	1-136-540-11	FILM 0.82MF	5% 160V	D313	8-719-800-76	DIODE 1SS226	
C812	1-124-634-11	ELECT 1MF	20% 250V	D321	8-719-109-89	DIODE RD5.6ES-B2	
C813	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D324	8-719-914-44	DIODE DAP202K	
C814	1-126-542-11	ELECT 4.7MF	20% 160V	D331	8-719-911-19	DIODE 1SS119	
C815	1-126-233-11	ELECT 22MF	20% 50V	D332	8-719-911-19	DIODE 1SS119	
C816	1-102-228-00	CERAMIC 470PF	10% 500V	D333	8-719-911-19	DIODE 1SS119	
C817	1-123-948-00	ELECT 22MF	20% 250V	D334	8-719-914-44	DIODE DAP202K	
C818	1-106-375-12	MYLAR 0.022MF	10% 250V	D402	8-719-109-97	DIODE RD6.8ES-B2	
C819	1-162-114-00	CERAMIC 0.0047MF	2KV	D403	8-719-109-97	DIODE RD6.8ES-B2	
C820	1-162-318-11	CERAMIC 0.001MF	10% 500V	D404	8-719-109-97	DIODE RD6.8ES-B2	
C821	1-126-101-11	ELECT 100MF	20% 16V	D405	8-719-110-09	DIODE RD8.2ES-B3	
C822	1-162-318-11	CERAMIC 0.001MF	10% 500V	D406	8-719-110-09	DIODE RD8.2ES-B3	
C823	1-126-233-11	ELECT 22MF	20% 50V	D411	8-719-109-97	DIODE RD6.8ES-B2	
C824	1-124-913-11	ELECT 470MF	20% 50V	D417	8-719-914-44	DIODE DAP202K	
C825	1-106-371-00	MYLAR 0.015MF	10% 400V	D418	8-719-914-44	DIODE DAP202K	
C840	1-124-902-00	ELECT 0.47MF	20% 50V	D426	8-719-911-19	DIODE 1SS119	
C850	1-126-101-11	ELECT 100MF	20% 16V	D427	8-719-911-19	DIODE 1SS119	
C1301	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D450	8-719-978-31	DIODE DTZ6.8-TT11	
C1302	1-126-101-11	ELECT 100MF	20% 16V	D501	8-719-300-33	DIODE RU-3AM	
C1303	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	D503	8-719-911-19	DIODE 1SS119	
C1304	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	D504	8-719-400-18	DIODE MA152WK	
C1305	1-126-233-11	ELECT 22MF	20% 50V	D519	8-719-400-18	DIODE MA152WK	
C1306	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	D601	8-719-946-90	DIODE KBU4JL-6088	
<FILTER>				D602	8-719-976-64	DIODE RGP02-17	
CD101	1-579-110-11	DISCRIMINATOR, CERAMIC		D603	8-719-911-55	DIODE U05G	
CF501	1-404-801-11	TRAP, CERAMIC					
CF502	1-409-327-00	TRAP, CERAMIC (6.5MHZ)					
SWF101	1-409-327-00	TRAP, CERAMIC (6.5MHZ)					

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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D604	8-719-928-08	DIODE ERD2S-08S		L107	1-408-410-00	INDUCTOR 12UH	
D605	8-719-300-33	DIODE RU-3AM		L111	1-410-872-21	INDUCTOR 10UH	
D606	8-719-980-78	DIODE ERAS3-006		L301	1-408-409-00	INDUCTOR 10UH	
D607	8-719-300-33	DIODE RU-3AM		L302	1-408-419-00	INDUCTOR 68UH	
D608	8-719-300-33	DIODE RU-3AM		L303	1-408-425-00	INDUCTOR 220UH	
D609	8-719-911-55	DIODE U05G		L331	1-404-554-11	COIL	
D610	8-719-911-55	DIODE U05G		L404	1-408-397-00	INDUCTOR 1UH	
D611	8-719-312-40	DIODE R2K		L405	1-408-409-00	INDUCTOR 10UH	
D801	8-719-945-80	DIODE ERC06-15S		L406	1-408-417-00	INDUCTOR 47UH	
D802	8-719-928-08	DIODE ERD28-08S		L501	1-404-493-00	COIL	
D803	8-719-300-33	DIODE RU-3AM		L502	1-408-405-00	INDUCTOR 4.7UH	
D805	8-719-300-33	DIODE RU-3AM		L801	1-407-365-00	COIL, CHOKE	
D806	8-719-976-64	DIODE RGP02-17		L802	*1-420-872-00	COIL, AIR CORE	
D807	8-719-300-33	DIODE RU-3AM		L804	1-459-390-00	COIL (WITH CORE)	
D808	8-719-300-33	DIODE RU-3AM		L805	1-459-105-21	COIL (WITH CORE)	
D809	8-719-400-18	DIODE MA152WK		L806	1-459-652-12	HLC	
D820	8-719-911-19	DIODE 1SS119		L807	1-408-239-00	INDUCTOR 4.7MMH	
D1301	8-719-911-19	DIODE 1SS119		L808	1-408-226-00	INDUCTOR 82UH	
D1302	8-719-911-19	DIODE 1SS119		L1001	1-408-397-00	INDUCTOR 1UH	
D1303	8-719-911-19	DIODE 1SS119		L1002	1-408-397-00	INDUCTOR 1UH	
D1304	8-719-400-18	DIODE MA152WK				<VARIABLE COIL>	
D1305	8-719-400-18	DIODE MA152WK		LV301	1-404-554-11	COIL	
D1306	8-719-800-76	DIODE 1SS226				<IC LINK>	
D1307	8-719-800-76	DIODE 1SS226		PS801 Δ	1-532-637-91	LINK, IC 1A	
		<DELAY LINE>				<TRANSISTOR>	
DL301	1-236-062-11	MODULE, Y DELAY LINE		Q001	8-729-920-74	TRANSISTOR 2SC2412K-QR	
DL1301	1-415-613-11	DELAY LINE, Y		Q003	8-729-901-01	TRANSISTOR DTC144EK	
		<FUSE>		Q004	8-729-920-74	TRANSISTOR 2SC2412K-QR	
F601 Δ	1-576-016-11	FUSE, GLASS-TUBE (TIME-LAG) 3.15A/250V		Q005	8-729-923-54	TRANSISTOR DTA143TK	
	1-533-230-11	HOLDER, FUSE; F601		Q006	8-729-922-66	TRANSISTOR 2SC2410SN	
	4-201-057-01	COVER, FUSE; F601		Q007	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		<IC>		Q015	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC001	8-759-517-38	IC PCA84C840P-BE2A3		Q016	8-729-901-47	TRANSISTOR DTA143EK	
IC002	8-759-988-32	IC ST24C02CP		Q017	8-729-216-22	TRANSISTOR 2SA1162-G	
IC003	8-749-922-13	IC KEY-COOSV-F		Q019	8-729-901-06	TRANSISTOR DTA144EK	
IC004	8-759-805-37	IC L78LR05D-MA		Q020	8-729-901-00	TRANSISTOR DTC124EK	
IC005	8-759-157-40	IC UPC574J		Q101	8-729-901-47	TRANSISTOR DTA143EK	
IC102	8-759-044-41	IC TDA3827-V3		Q102	8-729-901-47	TRANSISTOR DTA143EK	
IC201	8-759-502-74	IC TDA7245		Q103	8-729-901-47	TRANSISTOR DTA143EK	
IC301	8-759-505-39	IC TDA4660V2		Q104	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC302	8-759-512-04	IC TDA3505-V1		Q106	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC331	8-759-521-22	IC TDA4650/V4		Q107	8-729-216-22	TRANSISTOR 2SA1162-G	
IC501	8-759-113-05	IC UPC1488H		Q112	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC502	8-759-515-72	IC TDA8304		Q114	8-729-901-00	TRANSISTOR DTC124EK	
IC601	8-749-901-65	IC STR54041		Q115	8-729-901-00	TRANSISTOR DTC124EK	
IC801	8-759-945-58	IC RC4558P		Q141	8-729-000-12	TRANSISTOR BF959	
IC802	8-759-604-39	IC M5F78M12L		Q302	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		<JACK>		Q303	8-729-230-49	TRANSISTOR 2SC2712-YG	
J401	1-561-534-00	SOCKET 21P		Q304	8-729-920-74	TRANSISTOR 2SC2412K-QR	
J1401	1-563-500-11	JACK BLOCK, PIN (L TYPE) 2P		Q305	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		<COIL>		Q306	8-729-901-00	TRANSISTOR DTC124EK	
L001	1-408-409-00	INDUCTOR 10UH		Q307	8-729-216-22	TRANSISTOR 2SA1162-G	
L102	1-408-409-00	INDUCTOR 10UH		Q310	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L103	1-408-399-00	INDUCTOR 1.5UH		Q311	8-729-216-22	TRANSISTOR 2SA1162-G	
L106	1-408-415-00	INDUCTOR 33UH		Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q457	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q504	8-729-920-74	TRANSISTOR 2SC2412K-QR	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q505	8-729-216-22	TRANSISTOR 2SA1162-G		JR126	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q601	8-729-906-74	TRANSISTOR BC637-16		JR127	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK		JR128	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q802	8-729-925-64	TRANSISTOR BU508AS2		JR129	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q803	8-729-202-03	TRANSISTOR 2SD1408-Y		JR130	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q1301	8-729-216-22	TRANSISTOR 2SA1162-G		JR131	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q1302	8-729-901-06	TRANSISTOR DTA144EK		JR133	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q1303	8-729-901-01	TRANSISTOR DTC144EK		JR134	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q1304	8-729-920-74	TRANSISTOR 2SC2412K-QR		JR135	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q1305	8-729-901-01	TRANSISTOR DTC144EK		JR136	1-216-296-00	METAL GLAZE	0 5% 1/8W
Q1306	8-729-901-01	TRANSISTOR DTC144EK		JR137	1-216-296-00	METAL GLAZE	0 5% 1/8W
<RESISTOR>				JR139	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR44	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR144	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR99	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR146	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR003	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR147	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR004	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR148	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR005	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR149	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR006	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR150	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR009	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR151	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR010	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR151	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR011	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR152	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR012	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR152	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR015	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR153	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR016	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR155	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR017	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR181	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR018	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR182	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR019	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR183	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR020	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR184	1-216-296-00	METAL GLAZE	0 5% 1/8W
JR026	1-216-295-00	METAL GLAZE	0 5% 1/10W	JRC38	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR027	1-216-295-00	METAL GLAZE	0 5% 1/10W	R001	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
JR028	1-216-295-00	METAL GLAZE	0 5% 1/10W	R002	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR029	1-216-295-00	METAL GLAZE	0 5% 1/10W	R003	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR030	1-216-295-00	METAL GLAZE	0 5% 1/10W	R004	1-216-083-00	METAL GLAZE	27K 5% 1/10W
JR034	1-216-295-00	METAL GLAZE	0 5% 1/10W	R005	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W
JR036	1-216-295-00	METAL GLAZE	0 5% 1/10W	R006	1-216-254-00	METAL GLAZE	220K 5% 1/8W
JR037	1-216-295-00	METAL GLAZE	0 5% 1/10W	R007	1-216-190-00	METAL GLAZE	470 5% 1/8W
JR038	1-216-295-00	METAL GLAZE	0 5% 1/10W	R008	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR039	1-216-295-00	METAL GLAZE	0 5% 1/10W	R009	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR045	1-216-295-00	METAL GLAZE	0 5% 1/10W	R010	1-216-198-00	METAL GLAZE	1K 5% 1/8W
JR050	1-216-295-00	METAL GLAZE	0 5% 1/10W	R011	1-216-035-00	METAL GLAZE	270 5% 1/10W
JR051	1-216-295-00	METAL GLAZE	0 5% 1/10W	R012	1-216-248-00	METAL GLAZE	120K 5% 1/8W
JR052	1-216-295-00	METAL GLAZE	0 5% 1/10W	R013	1-216-077-00	METAL GLAZE	15K 5% 1/10W
JR060	1-216-295-00	METAL GLAZE	0 5% 1/10W	R014	1-216-748-11	METAL GLAZE	39K 5% 1/10W
JR101	1-216-296-00	METAL GLAZE	0 5% 1/8W	R015	1-216-230-00	METAL GLAZE	22K 5% 1/8W
JR102	1-216-296-00	METAL GLAZE	0 5% 1/8W	R016	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR103	1-216-296-00	METAL GLAZE	0 5% 1/8W	R017	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR104	1-216-296-00	METAL GLAZE	0 5% 1/8W	R018	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR105	1-216-296-00	METAL GLAZE	0 5% 1/8W	R019	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR106	1-216-296-00	METAL GLAZE	0 5% 1/8W	R020	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR107	1-216-296-00	METAL GLAZE	0 5% 1/8W	R021	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR108	1-216-296-00	METAL GLAZE	0 5% 1/8W	R022	1-216-198-00	METAL GLAZE	1K 5% 1/8W
JR109	1-216-296-00	METAL GLAZE	0 5% 1/8W	R023	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
JR110	1-216-296-00	METAL GLAZE	0 5% 1/8W	R024	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR111	1-216-296-00	METAL GLAZE	0 5% 1/8W	R025	1-216-097-00	METAL GLAZE	100K 5% 1/10W
JR116	1-216-296-00	METAL GLAZE	0 5% 1/8W	R026	1-216-089-00	METAL GLAZE	47K 5% 1/10W
JR117	1-216-296-00	METAL GLAZE	0 5% 1/8W	R028	1-216-085-00	METAL GLAZE	33K 5% 1/10W
JR118	1-216-296-00	METAL GLAZE	0 5% 1/8W	R029	1-216-041-00	METAL GLAZE	470 5% 1/10W
JR119	1-216-296-00	METAL GLAZE	0 5% 1/8W	R030	1-216-077-00	METAL GLAZE	15K 5% 1/10W
JR121	1-216-296-00	METAL GLAZE	0 5% 1/8W	R031	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR122	1-216-296-00	METAL GLAZE	0 5% 1/8W	R032	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR123	1-216-296-00	METAL GLAZE	0 5% 1/8W	R033	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR125	1-216-296-00	METAL GLAZE	0 5% 1/8W	R034	1-216-238-00	METAL GLAZE	47K 5% 1/8W
				R035	1-216-077-00	METAL GLAZE	15K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R038	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R132	1-216-295-00	METAL GLAZE	0 5% 1/10W
R040	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R136	1-216-041-00	METAL GLAZE	470 5% 1/10W
R041	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R138	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R042	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R139	1-216-295-00	METAL GLAZE	0 5% 1/10W
R043	1-215-900-11	METAL OXIDE	22K 5% 2W	R140	1-216-037-00	METAL GLAZE	330 5% 1/10W
R044	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R141	1-216-021-00	METAL GLAZE	68 5% 1/10W
R045	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R142	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R046	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R143	1-216-033-00	METAL GLAZE	220 5% 1/10W
R047	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R144	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R048	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W	R147	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R049	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R148	1-216-017-00	METAL GLAZE	47 5% 1/10W
R050	1-216-250-00	METAL GLAZE	150K 5% 1/8W	R149	1-216-182-00	METAL GLAZE	220 5% 1/8W
R052	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R151	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R053	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R152	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R054	1-249-395-11	CARBON	15 5% 1/4W	R153	1-215-867-00	METAL OXIDE	470 5% 1W
R055	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R199	1-216-029-00	METAL GLAZE	150 5% 1/10W
R056	1-216-041-00	METAL GLAZE	470 5% 1/10W	R201	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R058	1-249-434-11	CARBON	27K 5% 1/4W	R202	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R059	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R203	1-216-298-00	METAL GLAZE	2.2 5% 1/10W
R060	1-216-234-00	METAL GLAZE	33K 5% 1/8W	R204	1-247-741-11	CARBON	150 5% 1/2W
R061	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R205	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R062	1-216-242-00	METAL GLAZE	68K 5% 1/8W	R206	1-216-035-00	METAL GLAZE	270 5% 1/10W
R064	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R207	1-216-298-00	METAL GLAZE	2.2 5% 1/10W
R070	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R301	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R071	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R302	1-216-033-00	METAL GLAZE	220 5% 1/10W
R072	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R303	1-216-033-00	METAL GLAZE	220 5% 1/10W
R075	1-216-248-00	METAL GLAZE	120K 5% 1/8W	R304	1-216-033-00	METAL GLAZE	220 5% 1/10W
R076	1-216-198-00	METAL GLAZE	1K 5% 1/8W	R305	1-216-033-00	METAL GLAZE	220 5% 1/10W
R077	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R306	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R078	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R307	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R079	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R308	1-216-033-00	METAL GLAZE	220 5% 1/10W
R081	1-216-198-00	METAL GLAZE	1K 5% 1/8W	R309	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R082	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R310	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R083	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R311	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R084	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R312	1-216-174-00	METAL GLAZE	100 5% 1/8W
R086	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R313	1-216-174-00	METAL GLAZE	100 5% 1/8W
R087	1-216-027-00	METAL GLAZE	120 5% 1/10W	R314	1-216-025-00	METAL GLAZE	100 5% 1/10W
R089	1-216-212-00	METAL GLAZE	3.9K 5% 1/8W	R315	1-216-047-00	METAL GLAZE	820 5% 1/10W
R094	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R316	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R095	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R317	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
R096	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R318	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R097	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R319	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R099	1-216-228-00	METAL GLAZE	18K 5% 1/8W	R320	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R100	1-216-017-00	METAL GLAZE	47 5% 1/10W	R321	1-216-023-00	METAL GLAZE	82 5% 1/10W
R101	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R322	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R102	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R323	1-216-192-00	METAL GLAZE	560 5% 1/8W
R103	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R324	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R104	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R325	1-249-410-11	CARBON	270 5% 1/4W
R105	1-216-109-00	METAL GLAZE	330K 5% 1/10W	R326	1-216-035-00	METAL GLAZE	270 5% 1/10W
R106	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R327	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R107	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R328	1-216-001-00	METAL GLAZE	10 5% 1/10W
R108	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R329	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R109	1-216-190-00	METAL GLAZE	470 5% 1/8W	R330	1-216-244-00	METAL GLAZE	82K 5% 1/8W
R110	1-249-437-11	CARBON	47K 5% 1/4W	R331	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R111	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R332	1-216-270-00	METAL GLAZE	1M 5% 1/8W
R112	1-249-420-11	CARBON	1.8K 5% 1/4W	R333	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R113	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R334	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R114	1-216-238-00	METAL GLAZE	47K 5% 1/8W	R335	1-216-001-00	METAL GLAZE	10 5% 1/10W
R115	1-216-045-00	METAL GLAZE	680 5% 1/10W	R336	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R116	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R337	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R118	1-216-037-00	METAL GLAZE	330 5% 1/10W	R338	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R119	1-216-045-00	METAL GLAZE	680 5% 1/10W	R341	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R130	1-249-409-11	CARBON	220 5% 1/4W	R342	1-216-041-00	METAL GLAZE	470 5% 1/10W
R131	1-216-041-00	METAL GLAZE	470 5% 1/10W				

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

KV-M2140K/M2141K

RM-694

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R343	1-216-031-00	METAL GLAZE	180 5% 1/10W	R523	1-247-754-11	CARBON	1.5K 5% 1/2W
R346	1-216-037-00	METAL GLAZE	330 5% 1/10W	R524	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R347	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R525	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R348	1-216-033-00	METAL GLAZE	220 5% 1/10W	R527	1-215-869-11	METAL OXIDE	1K 5% 1W
R349	1-216-029-00	METAL GLAZE	150 5% 1/10W	R532	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R350	1-216-041-00	METAL GLAZE	470 5% 1/10W	R533	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W
R351	1-216-043-00	METAL GLAZE	560 5% 1/10W	R534	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R352	1-216-039-00	METAL GLAZE	390 5% 1/10W	R535	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R353	1-249-438-11	CARBON	56K 5% 1/4W	R539	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R354	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R542	1-216-025-00	METAL GLAZE	100 5% 1/10W
R355	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R543	1-249-408-11	CARBON	180 5% 1/4W
R356	1-216-041-00	METAL GLAZE	470 5% 1/10W	R545	1-216-286-00	METAL GLAZE	4.7M 5% 1/8W
R357	1-216-039-00	METAL GLAZE	390 5% 1/10W	R548	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R360	1-216-001-00	METAL GLAZE	10 5% 1/10W	R601	 1-205-909-11	WIREWOUND	3.3 5% 10W F
R363	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R602	1-214-923-00	CARBON	270K 5% 1/2W
R364	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R603	1-215-903-11	METAL OXIDE	68K 5% 2W
R399	1-216-037-00	METAL GLAZE	330 5% 1/10W	R604	1-247-752-11	CARBON	1K 5% 1/2W
R402	1-216-172-00	METAL GLAZE	82 5% 1/8W	R605	 1-218-265-91	METAL GLAZE	8.2M 5% 1W
R403	1-216-023-00	METAL GLAZE	82 5% 1/10W	R606	1-212-877-11	FUSIBLE	68 5% 1/4W
R404	1-216-023-00	METAL GLAZE	82 5% 1/10W	R607	1-249-430-11	CARBON	12K 5% 1/4W
R405	1-216-023-00	METAL GLAZE	82 5% 1/10W	R608	1-215-884-11	METAL OXIDE	47 5% 2W
R406	1-216-226-00	METAL GLAZE	15K 5% 1/8W	R609	1-207-905-00	WIREWOUND	0.27 10% 2W
R407	1-216-226-00	METAL GLAZE	15K 5% 1/8W	R611	1-214-915-00	CARBON	120K 5% 1/2W
R408	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R612	1-219-137-11	FUSIBLE	0.33 5% 1/4W
R409	1-216-023-00	METAL GLAZE	82 5% 1/10W	R613	1-217-811-11	FUSIBLE	0.47 5% 1/4W
R411	1-216-037-00	METAL GLAZE	330 5% 1/10W	R614	1-216-037-00	METAL GLAZE	330 5% 1/10W
R412	1-216-037-00	METAL GLAZE	330 5% 1/10W	R615	1-216-013-00	METAL GLAZE	33 5% 1/10W
R413	1-216-037-00	METAL GLAZE	330 5% 1/10W	R617	1-216-354-11	METAL OXIDE	2.7 5% 1W F
R420	1-216-182-00	METAL GLAZE	220 5% 1/8W	R620	1-216-465-11	METAL OXIDE	27K 5% 2W
R421	1-216-449-11	METAL OXIDE	56 5% 2W	R621	1-216-465-11	METAL OXIDE	27K 5% 2W
R423	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R801	1-217-778-11	FUSIBLE	1K 5% 1W F
R424	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R802	1-217-819-51	FUSIBLE	2.7K 5% 1/4W
R425	1-216-033-00	METAL GLAZE	220 5% 1/10W	R803	1-216-352-11	METAL OXIDE	1.8 5% 1W F
R426	1-216-045-00	METAL GLAZE	680 5% 1/10W	R804	1-216-013-00	METAL GLAZE	33 5% 1/10W
R427	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R805	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R428	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R806	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R430	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R807	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R431	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R808	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R432	1-249-403-11	CARBON	68 5% 1/4W	R809	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R433	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R810	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R434	1-216-029-00	METAL GLAZE	150 5% 1/10W	R811	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R435	1-216-033-00	METAL GLAZE	220 5% 1/10W	R812	1-215-869-11	METAL OXIDE	1K 5% 1W F
R436	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R813	1-212-877-11	FUSIBLE	68 5% 1/4W
R437	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R814	1-215-868-00	METAL OXIDE	680 5% 1W F
R501	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W	R816	1-247-883-00	CARBON	150K 5% 1/4W
R502	1-247-743-11	CARBON	220 5% 1/2W	R817	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R503	1-249-437-11	CARBON	47K 5% 1/4W	R818	1-202-830-00	SOLID	10K 10% 1/2W
R504	1-216-017-00	METAL GLAZE	47 5% 1/10W	R819	1-249-448-11	CARBON	1.2 5% 1/4W F
R505	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R820	1-217-811-11	FUSIBLE	0.47 5% 1/4W
R507	1-216-350-11	METAL OXIDE	1.2 5% 1W F	R821	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R508	1-215-867-00	METAL OXIDE	470 5% 1W	R822	1-216-204-00	METAL GLAZE	1.8K 5% 1/8W
R510	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R823	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R511	1-216-244-00	METAL GLAZE	82K 5% 1/8W	R826	1-216-025-00	METAL GLAZE	100 5% 1/10W
R512	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R827	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R513	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R830	1-216-192-00	METAL GLAZE	560 5% 1/8W
R514	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R850	1-215-882-00	METAL OXIDE	22 5% 2W F
R515	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R1301	1-216-025-00	METAL GLAZE	100 5% 1/10W
R516	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R1302	1-216-029-00	METAL GLAZE	150 5% 1/10W
R517	1-216-031-00	METAL GLAZE	180 5% 1/10W	R1303	1-216-029-00	METAL GLAZE	150 5% 1/10W
R518	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1304	1-216-039-00	METAL GLAZE	390 5% 1/10W
R519	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1305	1-216-200-00	METAL GLAZE	1.2K 5% 1/8W
R520	1-216-258-00	METAL GLAZE	330K 5% 1/8W	R1306	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R521	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1307	1-216-047-00	METAL GLAZE	820 5% 1/10W
R522	1-215-863-11	METAL OXIDE	100 5% 1W				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1308	1-216-045-00	METAL GLAZE 680 5%	1/10W			<CAPACITOR>	
R1309	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C703	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
R1310	1-216-047-00	METAL GLAZE 820 5%	1/10W	C704	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
R1311	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C705	1-163-191-00	CERAMIC CHIP 270PF	5% 50V
R1312	1-216-222-00	METAL GLAZE 10K 5%	1/8W	C706	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
R1313	1-216-025-00	METAL GLAZE 100 5%	1/10W	C707	1-162-116-00	CERAMIC 680PF	10% 2KV
		<VARIABLE RESISTOR>		C708	1-162-114-00	CERAMIC 0.0047MF	2KV
RV001	1-238-012-11	RES. ADJ. CARBON 1K		C709	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
RV331	1-238-012-11	RES. ADJ. CARBON 1K		C710	1-123-947-00	ELECT 10MF	20% 250V
RV501	1-238-016-11	RES. ADJ. CARBON 10K		C712	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
RV502	1-226-703-11	RES. ADJ. METAL GLAZE 10K		C714	1-124-360-00	ELECT 1000MF	20% 16V
RV503	1-238-019-11	RES. ADJ. CARBON 47K		C716	1-162-622-11	CERAMIC 330PF	10% 400V
RV504	1-238-019-11	RES. ADJ. CARBON 47K		C717	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
RV505	1-238-009-11	RES. ADJ. CARBON 220		C718	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
RV801	1-238-015-11	RES. ADJ. CARBON 4.7K		C719	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
RV802	1-238-019-11	RES. ADJ. CARBON 47K				<CONNECTOR>	
		<SWITCH>		CNC71	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
S001	1-571-532-21	SWITCH, TACTIL		CNC72	*1-568-881-51	PIN, CONNECTOR 6P	
S002	1-571-532-21	SWITCH, TACTIL		CNC81	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
S003	1-571-532-21	SWITCH, TACTIL		CNC82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
S601	Δ 1-571-433-12	SWITCH, PUSH (AC POWER)				<DIODE>	
		<SPARK GAP>		D702	8-719-400-18	DIODE MA152WK	
SG801	1-519-422-11	GAP, SPARK		D703	8-719-400-18	DIODE MA152WK	
		<TRANSFORMER>		D704	8-719-400-18	DIODE MA152WK	
T601	Δ 1-449-275-12	S.R.T		D705	8-719-400-18	DIODE MA152WK	
T603	Δ 1-421-776-11	LFT		D706	8-719-400-18	DIODE MA152WK	
T604	Δ 1-424-078-11	TRANSFORMER, TRIGGER PULSE		D707	8-719-400-18	DIODE MA152WK	
T605	Δ 1-424-391-11	TRANSFORMER, LINE FILTER		D708	8-719-400-18	DIODE MA152WK	
T801	1-437-090-00	HDT		D709	8-719-400-18	DIODE MA152WK	
T802	Δ 1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)		D710	8-719-400-18	DIODE MA152WK	
		<THERMISTOR>		D711	8-719-300-33	DIODE RU-3AM	
THP601	Δ 1-808-059-32	THERMISTOR, POSITIVE		D714	8-719-800-76	DIODE 1SS226	
		<TUNER>		D715	8-719-800-76	DIODE 1SS226	
TU101	Δ 1-465-541-11	TUNER (BT-3C 301)		D716	8-719-800-76	DIODE 1SS226	
		<CRYSTAL>				<JACK>	
X001	1-577-619-11	VIBRATOR, CRYSTAL		J701	1-526-990-11	SOCKET, PICTURE TUBE	
X331	1-567-307-11	OSCILLATOR, CRYSTAL				<COIL>	
X332	1-567-131-00	OSCILLATOR, CRYSTAL		L704	1-410-878-11	INDUCTOR 33UH	
		<TERMINAL>				<TRANSISTOR>	
YC1301	1-565-666-12	TERMINAL, S 4P		Q702	8-729-230-49	TRANSISTOR 2SC2712-YG	
*****				Q703	8-729-906-70	TRANSISTOR BF871	
A-1638-016-A	C BOARD, COMPLETE			Q704	8-729-200-17	TRANSISTOR 2SA1091-0	
*****				Q705	8-729-230-49	TRANSISTOR 2SC2712-YG	
*4-379-160-01	COVER (REAR LID), CV			Q706	8-729-906-70	TRANSISTOR BF871	
*4-379-167-01	COVER (MAIN), CV			Q707	8-729-200-17	TRANSISTOR 2SA1091-0	
		<RESISTOR>		Q708	8-729-230-49	TRANSISTOR 2SC2712-YG	
JR1	1-216-296-00	METAL GLAZE 0 5%	1/8W	Q709	8-729-906-70	TRANSISTOR BF871	
JR2	1-216-296-00	METAL GLAZE 0 5%	1/8W	Q710	8-729-200-17	TRANSISTOR 2SA1091-0	

C

V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
JR3	1-216-296-00	METAL GLAZE	0 5% 1/8W	C5	1-124-120-11	ELECT 220MF	20% 16V
JR4	1-216-296-00	METAL GLAZE	0 5% 1/8W	C6	1-163-038-00	CERAMIC CHIP 0.1MF	25V
JR6	1-216-296-00	METAL GLAZE	0 5% 1/8W	C7	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
JR7	1-216-296-00	METAL GLAZE	0 5% 1/8W	C8	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
JR8	1-216-296-00	METAL GLAZE	0 5% 1/8W	C9	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
JR12	1-216-296-00	METAL GLAZE	0 5% 1/8W	C10	1-163-038-00	CERAMIC CHIP 0.1MF	25V
JR13	1-216-296-00	METAL GLAZE	0 5% 1/8W	C11	1-163-038-00	CERAMIC CHIP 0.1MF	25V
JR14	1-216-296-00	METAL GLAZE	0 5% 1/8W	C12	1-163-038-00	CERAMIC CHIP 0.1MF	25V
JR15	1-216-296-00	METAL GLAZE	0 5% 1/8W	C13	1-163-038-00	CERAMIC CHIP 0.1MF	25V
JR16	1-216-296-00	METAL GLAZE	0 5% 1/8W	C14	1-124-927-11	ELECT 4.7MF	20% 50V
JR17	1-216-296-00	METAL GLAZE	0 5% 1/8W	C16	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
JR18	1-216-296-00	METAL GLAZE	0 5% 1/8W	C17	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R704	1-216-487-11	METAL OXIDE	12K 5% 3W F	C23	1-124-927-11	ELECT 4.7MF	20% 50V
R705	1-202-824-00	SOLID	3.3K 10% 1/2W				
R706	1-216-182-00	METAL GLAZE	220 5% 1/8W				
R707	1-247-822-11	CARBON	430 5% 1/4W				
R708	1-249-401-11	CARBON	47 5% 1/4W				
R709	1-202-844-00	SOLID	330K 10% 1/2W				
R711	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R712	1-216-198-00	METAL GLAZE	1K 5% 1/8W				
R713	1-215-469-00	METAL	100K 1% 1/4W				
R714	1-216-487-11	METAL OXIDE	12K 5% 3W F				
R715	1-202-824-00	SOLID	3.3K 10% 1/2W				
R716	1-216-182-00	METAL GLAZE	220 5% 1/8W				
R717	1-249-415-11	CARBON	680 5% 1/4W				
R718	1-202-814-11	SOLID	33K 10% 1/2W				
R719	1-216-166-00	METAL GLAZE	47 5% 1/8W				
R720	1-216-210-00	METAL GLAZE	3.3K 5% 1/8W				
R721	1-202-842-11	SOLID	220K 10% 1/2W				
R722	1-202-848-00	SOLID	680K 10% 1/2W				
R723	1-216-198-00	METAL GLAZE	1K 5% 1/8W				
R724	1-202-846-00	SOLID	470K 10% 1/2W				
R725	1-202-838-00	SOLID	100K 10% 1/2W				
R726	1-202-824-00	SOLID	3.3K 10% 1/2W				
R727	1-249-409-11	CARBON	220 5% 1/4W				
R728	1-216-347-11	METAL OXIDE	0.68 5% 1W F				
R729	1-249-416-11	CARBON	820 5% 1/4W				
R730	1-216-166-00	METAL GLAZE	47 5% 1/8W				
R731	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R732	1-216-194-00	METAL GLAZE	680 5% 1/8W				
R733	1-216-194-00	METAL GLAZE	680 5% 1/8W				
R734	1-249-405-11	CARBON	100 5% 1/4W				
R735	1-215-493-00	METAL	1M 1% 1/4W				
R736	1-216-487-11	METAL OXIDE	12K 5% 3W F				
R737	1-215-483-00	METAL	390K 1% 1/4W				
R739	1-216-198-00	METAL GLAZE	1K 5% 1/8W				
<VARIABLE RESISTOR>							
RV701	1-230-641-11	RES. ADJ. METAL GLAZE	2.2M				
RV702	1-230-619-11	RES. ADJ. METAL GLAZE	110M				
RV703	1-237-749-11	RES. ADJ. CARBON	2200				
RV704	1-237-749-11	RES. ADJ. CARBON	2200				

A-1645-020-A V BOARD, COMPLETE (KV-M2141K ONLY)							

<CAPACITOR>							
C1	1-126-101-11	ELECT	100MF 20% 16V	JR01	1-216-295-00	METAL GLAZE	0 5% 1/10W
C2	1-163-038-00	CERAMIC CHIP	0.1MF 25V	JR02	1-216-295-00	METAL GLAZE	0 5% 1/10W
C3	1-124-120-11	ELECT	220MF 20% 16V	JR03	1-216-295-00	METAL GLAZE	0 5% 1/10W
C4	1-163-077-00	CERAMIC CHIP	0.1MF 50V	JR08	1-216-295-00	METAL GLAZE	0 5% 1/10W
				JR09	1-216-295-00	METAL GLAZE	0 5% 1/10W
				JR11	1-216-295-00	METAL GLAZE	0 5% 1/10W
<CONNECTOR>							
CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD					
CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD					
<DIODE>							
D1	8-719-105-91	DIODE RD5.6M-B2					
D3	8-719-914-44	DIODE DAP202K					
D5	8-719-914-44	DIODE DAP202K					
D6	8-719-400-18	DIODE MA152WK					
D9	8-719-106-17	DIODE RD6.8M-B2					
<IC>							
IC2	8-759-515-59	IC SAA5246P/H					
IC3	8-759-510-49	IC FCB61C65L-70P					
<COIL>							
L1	1-408-403-00	INDUCTOR	3.3UH				
L2	1-408-407-00	INDUCTOR	6.8UH				
L3	1-408-407-00	INDUCTOR	6.8UH				
L4	1-408-407-00	INDUCTOR	6.8UH				
<IC>							
PS1	A-1-532-679-91	LINK, IC (ICP-N15) 0.6A					
<TRANSISTOR>							
Q1	8-729-900-53	TRANSISTOR DTC114EK					
Q2	8-729-920-92	TRANSISTOR 2SD2096-EF					
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6					
Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6					
Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6					
Q9	8-729-901-04	TRANSISTOR DTA114EK					
Q10	8-729-901-01	TRANSISTOR DTC144EK					
Q11	8-729-901-01	TRANSISTOR DTC144EK					
<RESISTOR>							
JR01	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR02	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR03	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR08	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR09	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR11	1-216-295-00	METAL GLAZE	0 5% 1/10W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

V

J1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
JR12	1-216-295-00	METAL GLAZE	0 5% 1/10W			<CONNECTOR>	
JR13	1-216-296-00	METAL GLAZE	0 5% 1/8W				
JR14	1-216-296-00	METAL GLAZE	0 5% 1/8W				
JR15	1-216-296-00	METAL GLAZE	0 5% 1/8W				
JR16	1-216-296-00	METAL GLAZE	0 5% 1/8W	CN2001	*1-568-878-51	PIN, CONNECTOR 3P	
JR17	1-216-295-00	METAL GLAZE	0 5% 1/10W			<JACK>	
JR18	1-216-296-00	METAL GLAZE	0 5% 1/8W				
JR19	1-216-296-00	METAL GLAZE	0 5% 1/8W	J2201	1-562-837-11	JACK	
JR20	1-216-296-00	METAL GLAZE	0 5% 1/8W			<COIL>	
JR21	1-216-296-00	METAL GLAZE	0 5% 1/8W				
JR22	1-216-295-00	METAL GLAZE	0 5% 1/10W	L2201	1-408-409-00	INDUCTOR 10UH	
JR23	1-216-295-00	METAL GLAZE	0 5% 1/10W			*****	
JR24	1-216-296-00	METAL GLAZE	0 5% 1/8W			MISCELLANEOUS	
JR26	1-216-296-00	METAL GLAZE	0 5% 1/8W			*****	
JR27	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR202	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR203	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR221	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR222	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R1	1-218-326-11	METAL GLAZE	470 5% 1/2W				
R2	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W				
R3	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R4	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R5	1-216-047-00	METAL GLAZE	820 5% 1/10W				
R6	1-216-001-00	METAL GLAZE	10 5% 1/10W				
R7	1-216-083-00	METAL GLAZE	27K 5% 1/10W				
R8	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W				
R9	1-216-308-00	METAL GLAZE	4.7 5% 1/10W				
R10	1-218-325-11	METAL GLAZE	120 5% 1/4W				
R11	1-218-325-11	METAL GLAZE	120 5% 1/4W				
R12	1-218-325-11	METAL GLAZE	120 5% 1/4W				
R13	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R14	1-216-001-00	METAL GLAZE	10 5% 1/10W				
R15	1-216-013-00	METAL GLAZE	33 5% 1/10W				
R16	1-216-013-00	METAL GLAZE	33 5% 1/10W				
R17	1-216-013-00	METAL GLAZE	33 5% 1/10W				
R18	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R19	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R21	1-216-013-00	METAL GLAZE	33 5% 1/10W				
R22	1-216-168-00	METAL GLAZE	56 5% 1/8W				
R23	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W				
R40	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R42	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R49	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
		<VARIABLE RESISTOR>					
RV1	1-238-012-11	RES, ADJ, CARBON 1K					
		<CRYSTAL>					
X1	1-579-266-21	CRYSTAL VIBRATOR					

		*1-638-167-11 J1 BOARD					

		<CAPACITOR>					
C2200	1-164-232-11	CERAMIC CHIP 0.01MF	50V				

<CONNECTOR>

CN2001*1-568-878-51 PIN, CONNECTOR 3P

<JACK>

J2201 1-562-837-11 JACK

<COIL>

L2201 1-408-409-00 INDUCTOR 10UH

MISCELLANEOUS

 Δ 1-426-383-11 COIL, DEMAGNETIZATION Δ 1-451-295-11 DEFLECTION YOKE (Y21PFA2)1-452-032-00 MAGNET, DISK; 10MM ϕ 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM ϕ

1-452-277-00 MAGNET, BMC

1-503-258-21 SPEAKER

 Δ 1-590-460-11 CORD, POWER (WITH CONNECTOR)V901 Δ 1-8-738-753-05 PICTURE TUBE (A51JXH60X)*****
ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
4-200-610-61	MANUAL, INSTRUCTION (ENGLISH/GERMAN/ POLISH/RUSSIAN)	
*4-200-680-01	INDIVIDUAL CARTON	
*4-200-681-01	CUSHION (UPPER) (ASSY)	
*4-200-684-01	CUSHION (LOWER) (ASSY)	
*4-380-340-01	BAG, PROTECTION	

REMOTE COMMANDER

1-465-562-11 CONTROL UNIT, REMOTE (RM-694)

4-395-610-01 COVER, BATTERY (FOR RM-694)